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No. 58/10

HINTS ON REPAIRING BOOKS

How an Amateur Can Easily Keep His Volumes, Old and New, in the Best of Condition

(R. H. W. in T. P.'s Weekly)

Having taken up book-binding as a hobby, and remembering my former more or less futile attempts at "mending up" books, I feel that there may be many booklovers who would be glad of a few hints as to the right way to set to work when a book and its cover show signs of parting company, or the "plates" come out. I am only going to speak here of such simple repairs as can be done at home without any elaborate apparatus. As for going in thoroughly for book-binding, as I have done, that is another story; I can confidently recommend it as a hobby, and shall be glad to give further information if desired.

To take the simplest matter first; everyone knows how the plates (illustrations on special paper, not included in the text) have a tiresome habit of coming loose, especially those on highly-glazed paper, as the glazed surface comes away on to the sheet to which it is pasted. These plates ought always to be "guarded" as it is termed, i. e., properly included in the sewing of the book, but this is seldom done now except in expensive books, the pasting-on method being quicker.

As prevention is better than cure, I will first describe how a new book should be treated in order to prevent the plates from coming out. Bend back the plate carefully up to the point where it is pasted on. Look to see that the crease is straight, then crease it gently with the thumb-nail. The effect of this will be that in turning the leaves of the book the plate will fall back naturally instead of dragging the leaf with it, which so often causes it to come loose. To refasten plates which have come loose, take three or four at a time, lay them face downwards on a piece of waste paper, with the edges to be pasted away from you. Let the bottom one project nearly one-quarter of an inch beyond the next, and so on, so that each has a strip of that width exposed.

Lay a straight piece of waste paper on the top of the last one; now by pasting all over you will have a pasted strip at the back of each. Insert them in their proper places in the book, being careful that they go right to the back; then shut up the book. When dry they should be "broken back" as described over.

We will now take the case of a book which is wholly or partially out of its cover. (This will apply to ordinary cloth-covered books, not to leather bindings, which demand more expert treatment.) This often happens when the book itself is sound, and does not require re-sewing; a description of the sewing process must be reserved for a future paper, or a book on binding may be consulted. The book must first be entirely removed from its cover, by sitting up the flimsy canvas stuff which will probably be showing at the joint, but being careful not to cut the tapes (if any) on which the book is sewn; these must be simply lifted away from the board. Now all the lining of canvas and paper must be removed from the back. This will often peel off quite easily; if it gives trouble the book should be put in the press, the back well damped with water or thin paste, and the lining scraped off with a paper knife. Next tear off the old "end papers"—the single sheets, sometimes colored, which originally formed one piece with the sheet pasted down on the board. Take two folded sheets of white or colored paper the size of the book or slightly larger (they can be trimmed down afterwards), paste them at the back as described for pasting plates, and attach them to the book,

rubbing down with a toothbrush handle. Sheets of note paper make very good end papers for small books.

Now take a piece of strong calico, or holland, such as curtains are made of, large enough to cover the back and project about an inch on each side; glue the back of the book, and attach the calico, rubbing down with the toothbrush handle. Take a piece of brown or other stout paper, cut it to the width of the back, glue the back again over the calico, put on the paper and rub down as before. When dry, trim off the calico and paper at the head and tail of the book, and this part of the work is finished.

Now the cover must be seen to. First remove all the canvas remaining on the boards, also the paper lining from the back, unless this is quite good. Take a strip of paper, glue the back of the cover and attach the paper, passing it under the turnover of the cloth at head and tail. If the cloth is torn at the back, a piece of calico may be put on instead of this paper, extending over the boards for one-half inch or so; rub it well down at the edges of the boards. Before doing this, however, the book must be put in the case to try if there is room to allow for this lining without making the case too tight. Instead of the calico, Whatman's banknote paper may be used, this being very thin and strong, and exceedingly useful for mending.

If the outer corners of the boards are bent or bruised, put a little paste on them and hammer them carefully into shape on a stone or flatiron; when dry they will be quite hard and stiff.

Now put the book into the cover, and don't forget to see it is the right way up! (I once saw a leather-bound book with gilt tooling and title, "finished" up side down.) See that it is straight, with the cover projecting equally all round; lay it down on the table, turn back the upper board. Paste all over the end-paper, first putting a waste piece underneath, to protect the book; lay the tapes along the joint on the pasted paper and rub down; paste again over the calico. Now see that the book has not shifted from its proper position, then carefully bring over the top board on to the pasted paper, and press down slightly. Lay it again with the paper attached; lay it on the edge of the table so that the board rests firmly on the table, and press well down (not rub) with the palm of the hand.

If you are content to wait, the book may be left at this stage until dry; it must not be closed while damp without a pressing tin being inserted, or the first sheets of the book will be cockled. The other end-paper is then treated in the same way, when both are dry (or partially so), or put under a heavy weight. Be pressed, the book should, if possible, be pressed, the book should, if possible, be pressed, the book should, if possible, be pressed.

Materials—The only special apparatus required is a press of some sort; even this may be dispensed with. The real thing is a bookbinder's "laying press"; a carpenter's vise would answer, or the book may be screwed up between the leaves of a dining table.

Glue—A glue pot is not an expensive item; as a substitute, however, a jam pot and a saucepan may be used. Break the glue into small pieces and soak it in water overnight; it will then melt when the water boils. Add water to the glue if necessary; it should be fairly thin.

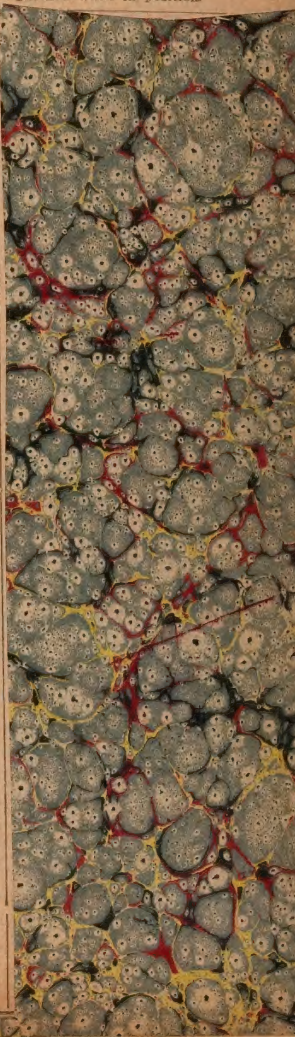
Paste may be bought, "Stickpaste" is best, or may be made as follows: Mix 3 ounces flour to a smooth paste, with a little cold water; add a pint, a saltspoonful of powdered alum, and one dram essence of cloves. Boil ten minutes, constantly stirring, then pour into a stone jar. This will keep for a considerable time.

Pressing Tins are plates which may be cut out of the sides of a biscuit box, about 10 in. by 7 in. will be a useful size for ordinary books.

Those who go in for sewing will require a press, for illustrations of which, as well as description of the sewing process, I must refer them to the books mentioned below.

The heavy cumbersome presses used in the trade cost about 7s.; a substitute may be made for a few pence as follows:

Instead of a screw upright use plain up-rights with a fixed crossbar of flat wood at the top. Procure at an ironmonger's three wire fence strainers, fitted with thumb screws. Make a slit in the top bar for these to work in. The cords for sewing can then be fastened to the books and tightened when in position.



mm

little pond Brookline Mass 17 May 96
Mt Washington Road White Pine 30 Aug
Walpole Rhododendron July 20 1897¹⁸⁹⁷.

Geoly Kennedy
Readville Mass
Feb 1896

1896

Feb. 20th 9 AM went up Blue Hill to find *Buxarmina* for Mrs Brillou, but a few inches of hard snow covered the ground up there. Saw a few old capsules, but took no plants. Got *Racomitrium aculeum* Brid in the Edith Cascade Brook, dry bed. The dry plants have leaves very much appressed, the plants in wet places have the leaves quite rosulate looking. On the rocks of the Ravine gathered *Epiphegus Virginiana* Bart, and on path the husk of *Cassia vesca* fruit growing on a young shoot not over 10 ft high, that had sprung up from the roots of a burnt tree, the latter abt 8 inches in diameter at base. In over bird brook took good *Grimmia conferta* Funke.

22nd March. Cloudy morning, fine afternoon. walked the Reservation Road to hillside St + round Blue Hill home at 12.30.

Much snow on side of hill, quite bare on South slopes of hills. Went to top of Hancock in route. Found very fine sprouts + buds of *Fagus ferruginea* + on one vine much fruit of *W. arctostaphylos*.

Sunday

² 1896

April 5. Sunday - Mr C. E. Taxon & E. F. Williams
out on 8.30 train & we reached in
Mr Henneweys Land. down to the
River Landing, by the road we have
christened "Black ash Road" -
Got buds of *Pyrus arbutifolia*,
Salix petiolaris & *cordata*
seen by the Landing: up the road
parallel to the river through the
Pine Grove where the old Indian
Dr. used to live in 1870 when
Mr Taxon used to travel. there
offener. On this road he found
Kabernaria blaphariolotta -
Got fruit of *Typha* ? *latifolia* -
By the farm barn a largish
tree of *Fraxinus pubescens*, bark
much less deeply furrowed
than *Americana* & branches more
twiggy. Then by Henneway meadow
road to Green Lodge Road, seeing a
fine flock of Fox Sparrows. Got
several mosses in the little brook.
Scapania.? -? also fine
winter buds of *Viburnum cassinoides*.
Home at 1.45 to dinner

1896

April 26

E & F Williams & Mr Rich came out 9 am. Fine cool day. wind E. we walked thro Wildcat Notch to Houghtons, where Hal drove over for me & the others walked over to Sinclair's bridge. Got young leaves of *Acer dasycarpum* for me opp our Avenue. also pistillate fls of *Myrica asplenifolia*, & *Juniperus Virginiana* & *Populus tremuloides* - Saw also *Viola sagittata* & *pedata* in flower & gathered *Taraxacum erythrospermum* on rocky side of Bluehill on Hillside St. In Wild Cat Notch where *Funaria hygrometrica* is very abundant, saw a moss which was a *Funaria* but looked very different from the rest of the *hygrometrica*: capsules still very green & fresh, so have set it out under glass, hoping it will mature, I suspect *F. microstoma* B.S.

April 30

To Lebanon 11.30 am with Hattie & M.K. arr. 4 PM. *Populus tremuloides*, also *Salix cordata* close by the house & the double ovary willow which now does not look like *cordata*. at sunset Millie & I to the Pines overlooking the pasture glen. A mulanberry just swelling the buds. Prunus by the dining room same.

May 1.

Flowers at Libanon N H

Viola palmata L var *cucullata* Gray

Hostonia caerulea L

Nyctea asplenifolia Eudl

Waldsternia fragarioides Tratt

Fragaria Virginiana Mill

Hepatica triloba Chaix

~~*Galearia*~~
Graphium plantaginifolia Hook

Alnus incana Willd

Corylus

(*pendulans* var *minor*)

Viola blanda Willd

Dirca palustris L

Anemone nemorosa L

Lonicera ciliata Muhl

Epigaea repens L

Luzula vesualis DC

Erythronium Americanum Ker

Oryzopsis Canadensis Torr

Asarum Canadense L

Carex pedunculata Muhl

Trillium erectum L

Carex Pennsylvanica Lam

The *Carex Pennsylvanica* not as much
advanced as *Carex pedunculata*.

Millie & I walked in pasture glen & River Road.

Saw also the double flowered willows & took
full notes of situation & appearance

May 2. In the cow pasture
Equisetum scirpoides new to me there.

May 3. With E. Gleason over hill to Winchester
9 am & walked by North Dam, &
end of Spot Pond, Virginia Wood
& to Cascade at Malden & home
from Fell Station on Bow R.R.
Carex umbellata

Comus
Eudora Benjoi P. & L.
Ranunculus fascicularis which I
have not gathered in 31 years:
never found it on the south side
of Boston.

Hepatica triloba in plenty on
North slope of Bear Hill.
Sanguinaria Canadensis plenty
near the Ravine road.

Cynopholis americana best seen
plants on rocky side of
brook in place near Virginia Wood.
A very smootharked Elm in
young trunk on roadside between
Bear Hill & upper end of Spot
Pond. C. E. Fay names it
Comus but the bark was
as smooth as a Red Maple &
it was growing in a sort of water.

at the Mackinac Cascade a large
Paper Birch, and Betula both
large Betula taken on the Cascade
there.

7 May

With H. Z. Hedges to Cabaret
this morn to look for *Erigeron*
maximus, but the weather
was made a very high sea
- surf. The day was windy &
we did not explore on the north
side. The vegetation is *Juniperus* in its
long white branches which
were longer than the decid-
uous.
Also *Lathyrus meridensis* in fruit.
Many *Balan* & *Alnus* trees seen
there.

8 May

A. H. Hedges & E. Laxon here by R 45
& we drove in the Keweenaw way, land
down the meadow road. The wet
piece of meadow mowing had plenty
of *Salix myrsinoides* L. in it, both
♂ & ♀ and in road to Green Lodge
found *Viola pubescens*; came
home by Pecuni St. looking for the
Black-throated Green Warblers in the
Pines. They staid to lunch here &
saw the Birds.

In that meadow also found

<i>Hyssopus cordifolius</i>	Less	size	
"	<i>cuspidatus</i>	Less	size
"	<i>repens</i>	L	much

11 May

Ran on beach to Kay to Sultan by way of Beach to side of Kithope & then cross st. to Wattapan.

At first water in woods North side of road on root of tree a pleasant moss with young fruit that I have preserved. It is a fruit growing very close together, bright green kept on tree root, what I brought home is attached to small pieces of the decaying wood. Make to gather again next month. probably it is *Polygynum repens* B.S.

12 May:

In the matted area by kitchen window forming yellow green mats on the ground is *Hyssopus rotundifolius* L. and much smaller specimens of same plant growing under the trees above the house of the Mission.

15 May:

on a wet rock by the spring on our last
 short spur of *Hypnum rubicundum*.
 covers pillow wet on the rocks.
 largest ones I have seen.
 on a wet rock by the spring.
Hypnum rubicundum grows just on
 the rocks near to the spring. *Hypnum*
 on the rocks in the stream. on
 the *Leucostictis* rocks of the
 last. very little. mostly *Hypnum*
 at the end of the spring.

Rth. Grove with *Psyllis* moss. *Hypnum*
 covers last. *Hypnum* on the rocks.
 Present to: *Hypnum* *Hypnum*
 is the *Hypnum* when the *Hypnum* is
 in the *Hypnum* *Hypnum* *Hypnum*
 not found in the *Hypnum*.

Found on *Hypnum* *Hypnum*
 brought home two *Hypnum*.

Hypnum *Hypnum* *Hypnum*
Hypnum *Hypnum* *Hypnum*
Hypnum *Hypnum* *Hypnum*
 this spring.

One most *Hypnum* *Hypnum*
 the old *Hypnum* are *Hypnum*
Hypnum *Hypnum* *Hypnum*
 the young ones are *Hypnum*
Hypnum *Hypnum* *Hypnum*

Richard's Pond

Carya bursifolia

growing in water

leaves: pink lanigera

Scutellaria canadensis

The Indians, Mr. Leger took us

to had all these water killed

+ we saw only the remains left
near the very high pines.

In meadow on RR

Salix alba + aphylla nigra

... ..

... ..

Hesperis matronalis

Cory. parvica

In the cold spring

Sphagnum

+ Lonicera linearis

In the cold meadow

Lepidodermis pallidum

On the edge by roadside near Amos

Amos

on the road up the Amos

Amos Hospital

Eleocharis acicularis which

Mr. Leger says was killed when

fire was under the shade of high

pines, grass gone, + probably the

was with them in contact with

by the roadside. Negroes records

in many places

1896

22 May

Primula Macdonaldii from Mass. L.
 at Enclough by 111
 Bicycle to Roxbury Millers dam Harvard St.
 back of Mt Hope no *Pr. Macdonaldii*
Pr. peruviana in ^{Mass.} ~~Mass.~~ by Mattapan
 + very *Pr. peruviana* appears in front.
 On Blue Hill for *Salix cordata*
 also *Chaparral* *fruticosa* L.

23 May

with Mr. F. Mayhew to Roxbury
 Enclough by 111. Found in woods
 2 *Pr. peruviana* in 10 ft. *Pr. peruviana* near
 Fox house on the road near
 that makes a hole with the tree.
 Also *Chaparral* *fruticosa* L.
 Drove in P.M. down Green St., Roxbury
 to Cambridge Reservoir Pond
 through Laughton Turnpike -
 near gate house at outlet of
 Reservoir Pond *Salix nigra* in
 fine condition & etc. and also
 in two forms. *Calla palustris*
 + *Cypripedium acaule* on Laughton
 Turnpike.

24 May

Sunday from Ferry Charlestown family
 called. A.D.H. here for the day.

12 1896

28 May.

at Beaver Brook Reservation from
10.30 to 3.30 with Walter Deane.
Supt. Mrs. Elder, a Scotchman
interested in two Scotch Pines there.
We noted 60 plants shrubs & trees
not yet listed in the Prov. Flora.
copy of which H. D. has the not
yet distributed. Some of the
noteworthy things to me were
Equisetum hiemale.

Carex laxiculmis.

Ceanothus longistylis same as
I used to get there in 1883.

Barbarea striata

Anthoxanthum umbellatum
evidently fr. an old garden
must have been beautiful. Several
times in 1880, and at Reservation.

Arenaria serpyllifolia

Larax laricina *exilis* found.

Prunus pennsylvanica by the Pond.

Carex striata var. *decora*?

I also gathered a dozen or more
things to study & report on.

30 May.

Ad. Hodges here & we took the B&O
to Hillside St. & by road to the English
gate, by side road to Crossman Pines -
never there before & thence by road road
fell: the bounds of Reservation back to
Reservation Road behind Mr. Holcott's
house. In the brook under the
Cliff at Crossman's Pines got a *Pent-*
nalis, perhaps *troua* Angliae & mixed
with it a *hybernica*, perhaps *hybernica*.
Another *hybernica* from there may
be *orthocladon*.

31 May

Sunday we rode with Lucie &
Michael Green Lodge Road back
same way. Got good fls *P* & *L* &
Carya amara from trees on
Green Lodge Road on the DeLham
side of the River, also in
the narrow Road in New East
Lymphyllum spicatum in fine
flower.

The *Fontinalis* above had a fine example of
Proteridina *Uminia* in a larva in case
on side garden which with it & others
in the lake had been kept in a
box of the *Fontinalis*.

1796

8 June

Took 2 Mr. Perceps, & others to the
river - returned - at the foot of
the mountain with a party of gentlemen
very little game. The birds were
very scarce. I was spent the afternoon
visiting the various trees - about 10
miles - saw for very few. Found many
specimens of *Pipula nigra* L.
in the park. Some of the birds were
very scarce. I saw many of the birds
the birds, the birds of the birds
the birds, the birds of the birds.

1896

Willoughby N.Y.

15

9 June

Came here yesterday with A.D. Hedges & Sinclair rain all day. At West Burke Mr. & Faxon met us, having come from Franconia & we were by train here.

Today rain all day. We worked up the Lake shore road where the rain held up in the morning, but we came home at 2.30 in a heavy rain & it has kept on all day. I gathered mosses & have pressed them. I also observed & noted with Mortimer 57 species which I have put on cards & filed in my card-catalogue, which I begin today, with for myself & a help to the Botanical Club. *Ulmus fulva* has been found by the house in going back with the *Ulmus* in. List of plants in my field note book.

10 June

Fine clear day with strong North wind. Blue sky & white clouds. Sinclair & Long took trout fishing. got 12. 20 ft. box of - I took of that & back at 2 o'clock. Took 5 plants. only about 20 mosses, many them *Funaria* *Barbula* *Ulmus*. One *Ulmus* in plants book.

after supper walked to edge of lake.
The soft Poplar by the side of the
road is tremuloides. Nest of. Saw
at some fine *Picea alba* by the
path westward going to the lake.
Listened to the Hermit & Wilson's
Thrushes. The Hermit Thrush
very scarce just about here.

11 June

Raining all day, but we got out & drove
again several times in the morning. In
the swamp by Little Pine behind the house
Salix balsamifera, & *Carex hookeriana*
& *Hyssopus scopulorum*.

P.M. We went on the path on Westside
of Lake near Cold Brook, where I had never
been before, a fine place for mosses
& Hepaticas. Home at 5.30 and
Platteau Mr. J. & William had arrived.
List of plants observed today in the
Park Catalogue.

1896

12 June

Mr Taxon & I both with A & H drove the road a mile towards West Burke. Fine Carex area in damp place & by first house *Premula Mastascimica* in place where I saw it years ago. Several mosses also.

Then we walked up the Lake Road to the Roaring Brook Falls: got there several mosses, *Myurella* & others. Mr Taxon showed us the slides from the road & we heard a great fall of rocks, which A & Reeves Hatter saw from her room window; on the big slide fell by a grand smoke in the woods below, but the stones did not reach the road.

13 June

Several went home at 7 am & A & H drove to West Burke with him. Mr F. & I walked down the road & to *Premula* swamps & Cat-tail swamps etc. There A & H found us & we went on a little further to where a bath on the left leads down to a beautiful cold spring. Then I saw a *Leucis* *virginiana* in the forest & a *Prunella* *sp.* in the garden. We went on to the spring.

1896

13 June

Afternoon we went back to the top of the slide. The forest at the top was beyond the summit of the slide. Not counting the pioneer species appeared in the forest. The slide was the top we got. The forest was a forest of trees. This is the slide that was the large forest above. It is a forest of trees. In a cliff of the rock formed a very tall trees in front. — a forest of trees.

Saligeria calcarata.

Day
14 June
1896

After taking care of my plants with E. & F. and to go to yesterday's Listeria forest, where we hunted two hours for the fruit or flower of *Calypso bonalis*, but did not find any. The *Asplenium splendens*, was splendid. Indeed everywhere else looked better. got some old fruits of *Uroselin grandiflora* & young *Streptopus amplexifolius*.

P.M. We went to the lower cliffs near the house, but found the going very difficult + spent most of the time in the rocky woods below; found a tree that Mr E. F. allowed was *Ostrya Virginica*, did not find *Pinus*, but did find an oven bird's nest with five eggs + brought back also the usual bag full of mosses.

5 June

Mr Faxon went home at 7 am. I took 2 hours to work on my plants + then in wet pasture trying to find *Hypnum Blandovii* - Then with A. H. in *Epigaea* Swamp + got some more specimens of *Carex tereticaule*.

P.M. we all walked to Cow Brook by the path. Got mosses + saw a few plants of *Chimaphila umbellata*, new to my list. A *Lepidium* also by Mr Cheney's Cottage. Day dull + cloudy.

1896

June 16

Drove over the Sutton road & by the Sutton Cemetery back almost to West Burke & then by stage road home. Mrs K. M. & J. Miller A.D. & J. Miller (the driver) & J. Tourist Parvassia at roadside just beyond Richardson place on Sutton Road, also Hummels. Some fine Viburnum opulus on the Cemetery Road. At our old Calypso place tried to find some plants, but it is much burnt over & hurt.

P.M. packing &c & dug up three white Spruce trees to carry home in a paper pail.

17 June

Left the house at 7: West Burke at 8.15 arr. Lebanon at 12: dined with Edith, left at 2.58 am Boston at 7.15

25 June Left Boston with Mosher at 1 o'clock for
Lebanon. Train went to Franklin
Jct only and at 4, we alighted there
to supper at the Webster House
7, 4 long. Prof + left for Lebanon at 7:47.
I spent an hour or so in the glen
beyond the little river + took a walk
of the station and Michael framed the
list of species which I have
enumerated on the 25th. *Liriodendron*,
Illicifolia was noticeable and
a warm swampy *Catalpa*.

26 June at Lebanon, from House to Lebanon
walked on Prof's farm - the bottom
of the St. Peter's Creek meadow
on the west side of the road. Saw
by the roadside *Paspalum latifolium*
seed.

27 June Went thru the woods part of the
day to Webster's house.
Liriodendron micranthum escaped
in the deep glen beyond
the meadow. *Conium maculatum* - very
strange and unusual form
specimens. Prof. Mosher also took
Asclepias tuberosa and *Asclepias*
that came in the spring.

1896

July 1.

From Boston 9 am to New Haven at 5:30 pm.
 Hal met me at New Haven & came along.

Pres. Ezra Townsend of Middlebury College
 & Prof. Brewster (H.L. 73) his assistant got
 off the train here & we were soon ac-
 quainted. After supper at the
 Hotel we went in with Professor
 & the house by a path & over hill
 & across river. Camp tent
 was very handy, but old & shabby.
 Large tent for dinner & bath.

July 2.

Left New Haven in train at 8:30, the
 four of us & drove this Middlebury Centre
 to end of road & hopped up Mt Mansfield
 overlooking by Prof. Brewster & the Rockford
 Academy - we worked together.

Reached camp at 10:30. Prof. Perkins &
 Jones of Burlington & Prof. Conner &
 Prof. Eddy & Randolph of same loc.
 arrived at 11:30. We got the
 rooms & then looked among the Adirondack
 Camp, Camp Hancock & Camp
 Lida. Then to the Chin high school
 100 ft. & 50 ft. Then over the
 lake ways to see the lake & the clouds.
 Then down the West peak of Chin &
 got various African things, then back
 with hotel, working about nothing.
 Very very fine view over the lake.

July 23

Directly across the North side and
the valley way stream bed with some
the more like a white gravel.
Lumber at 4.5. A boat white
to my boat by our longshore boat.
a heavy day when observed the same.
The early winter boat patch -
other for longshore boat by the lake
of the lake - some things. Found
Parker's Boat Patch, but I started
down the road and a path but lost
path to the patch. When got
patch - when the boys went
back found it. But I kept down
the road, he with a heavy bag of
some specimens of both pieces.
We came down the 5 miles with
some & then at the corner. Some
kind a sign - when driven up to
the patch house 3 miles, so we
were the first to arrive. Found
early came next I went with
some. After lunch we went
up the boat side where on the
longshore side. At the boat
road. It was muddy. But
Parker's remained looking at
the boat. got Parker's notes.
Parker's out again. not Parker's

across & back among the ridges.
 Although things that I did not
 notice. The view past the
 valley the color like sky on the
 looking mountain. Frost & bright
 light somewhat higher than
 usually but low down to the valley
 for there was a cloud of white
 smoke came from the east &
 found a very good horse there
 from Ireland. Approximately 10
 miles across and the 2 miles in
 from the. It took the road in
 about 10 miles as a horse road
 because with a horse road slide
 but after a mile the road is just
 after supper at the bridge hotel we
 by train to the hotel. The road
 back kept on to go down
 the other side of the
 hotel to go down the stairs
 down the stairs to the bridge hotel
 on the S. H. side of the mountain
 Frost said it was first time he had
 been on the S. H. in his life
 but we had a very beautiful fine
 day.

1896

25

July 4

Left Woburn 7.08 & arrived Lebanon
at 12. Got home at 3 o'clock but I
spaid over with Mattie till Sunday for
then home by the Lake train.

W. H. Murphy left July 11, 1896
left Boston with Mr. Hades & arrived
West Brook 4 o'clock. Hot day.
Took Broomfield today & at various
places from Union Station to the house.
The house made home night.

11 July

Left the 4th of July. There was a storm
thunder & rain here in. Got E. H. Hades
Pumpkin today with a little weather.
Hades & Hades. The house was
again was here. The house was
with Hades & Hades & Hades.

1896

12 July

Very bright day - the forenoon till
 took a trip from Little Pond down to
 Little Pond Spring down by the road.
 Got several new things. One plant
 of *Asplenium adnigrum* in fruit.
Asplenium adnigrum is very common.
 - which may be a new record
 for *Asplenium adnigrum*. Also
Scirpus rigens which I have not
 seen elsewhere. Then all of
 went up the lake in the Grandest
 while I arranged & checked my plants.

13 July.
 Monday.

We went up hill back to Sugar House
 & soon came out on a high pasture
 with view towards West Burke.
 Then back again down hill we
 reached the path up the mountain
 finding a clump of yellow Cedars
 Shoppers in fruit & also two specimens
 of *Asplenium quercifolium* in flower.
 From path we went down valley
 the slope to Pierre House & a little
 beyond over a very steep fall of
 stones from the Cliff, quite a
 growth of *Asplenium* down down. The
 leaves are in drying up, the earth
 covered with some large rocks.
Asplenium & *Asplenium* to rain is

Look over many plants & after we went
into the wet pasture we soon came
back again.

14 July
Sunday.

Bill drove us in double beam around the
Lake to Sheffield Landing. Put up horns
there & we lunched at the Lake side.
In bog there *Calla palustris*, *Carex*
retrofracta & *Sagittaria thyrsiflora*
up the brook. *Sagittaria chlorantha*
but no minor altho it was a very
likely place. We drove home by
the Long Pond road, getting many
plants, so that I added 35 to my
list. *Cinna pendula*, *Glyceria*
canadensis & *pallida*, *Salicorua*
capens, *Carex vulpinoidea*, *Habenaria*
fruticosa & *tridentata*.

15 July
Monday.

Went over on yesterday's plants. Till
the dinner hour at 12.30, and just
as we got ready to go out showers
began. At 4 went up to view
the lake in the steamboat with Capt
~~Henry~~ Rowell. PM we had rains,
which ended in a violent tempest abt
5 o'clock, obscuring lake & mountain, so we
did no botanizing.

28 1896

16 July
Thursday.

Left house at 8.05 & went up the Mt.
& to North Lookout. Cloudy overhead,
but Mts were plainly seen from
Mansfield to Washington. Got
Aralia hispida & *Sanguinaria* both
new to list. Came home at 12.15
after taking Barometer at various
places. PM we went to Cold
Brook, followed it up beyond then
back & into the woods towards
Mt. Nor, got *Aspidium spinulosum*
type. A.D.H. wrenched his
knee knee getting under a log &
we came home slowly at 6.15—

Friday
17 July.

Left house at 7. West Burke at 8.10
arr Lebanon at 12. Left at 3 o'clock
arr Boston 7.10. A.D.H. took tea with
me at Prov. Station & I home 8.15.

1896

July 16 Barometrical observations by A.D. Hodge, Jr.					
Location	Hour	Clouds	Wind	Feet	Temp.
Ground in front of Hotel	Am 8.05	9. Threatening	moderate from N.	1770	61°
Pulpit Rock	8.40	9. Threatening	stronger fr. N.	2300	60°
Summit on the Path	9.35	9. Lighter	slight breeze fr. N.	3225	59°
North Outlook	10.30	9. "	light fitful breezes fr. N.	2985	61°
Summit on Path	11.10	10 "	light fitful breezes fr N	3225	61°
Pulpit Rock	11.40 11.45	10 "	stronger gusts from North	2315 2325	60° 60°
Ground in front of Hotel	Pm 12.15	9. "	light wind from North	1760	62°
Front of Hotel	2.25	" "	" "	1735	
Lake Shore	2.45			1610	
" "	3.5			1610	
" "	5.35			1560	
Front of Hotel	6.00			1660	

Monday's July 16

Clear & dry. C. ...

Wilmington N.H.

July 20.
Monday.

Hattie & I left Boston 9 am arr West
Broke 4 o'clock. Rain began at Ply-
mouth & continued till dark, we
arr house at 5.30, E. F. Williams
there: he came up last Friday.

July 21

We went to Cold Brook & E. & I got
Carex aurea there & *retroscia* & *lenticularis*
by the lake: back to Pierre's house
shellside & home at 12.45.

Ran pretty steady rain & we did
not go out. But after supper
walked up the Road a bit & then
down to the lake to get *Silene*
rotiflora in flower by Pierre's.
On Road found bracketed spikes
of *Plantago major* like the
Roberval specimens: also
Sambucus canadensis with the
white pith & *Spiranthes Ro-*
manoffiana in flower. Rain
again in the night.

July 22

A fair day. Followed down from Little
Pond on West side of Brook: found
fine *Aspidium cristatum* var
Clintonianum in the Swamp not far
from the road: we washed the roots
in the Drinking trough on Mrs. R's land.

then down the road to the Keruik House &
in by the brook then to Heskera Spring:
getting *Monarda uniflora* by the way:
Lunched at Heskera Spring, then found
the brook followed it thro' the swamp,
& in pasture & meadow below &
came out on the road by the schoolhouse
at Sutton corner, then down to the
Brook again by the road up to the
Arcadia retreat & then home by
the highway.

July 23
Thursday.

Rain all day: we had work enough
on our plants & hardly went out doors.
I examined & made figures of *Goodyera*
Wenzii. The afternoon cleared up
& we went up to the Pellaea cliff &
got *Woodsia glabella* & *Pellaea gracilis*,
but did not stay long: walked thro'
the Sugar house woods southerly to Mrs.
Richardson's pasture. Evening clear
& cold.

July 24
Friday.

after getting our plants in order we
started with lunch up the mountain:
found a fine bunch of *Goodyera*
repens by path to the Spring well up
the mountain. Lunched on the
So. side of the top with a sledge

to keep away blackflies. Went over to the
North outlook: mountains in all directions
fine. Lake Memphramagog clear & the
mks fr W to East. Ban Mt. Owl's Head
Sugar Loaf, & the highest one "Orford".
Mr Young, the Boat Builder from
Magog who is here says Orford is the
highest mountain in Canada, it
lies East of Memphramagog, but I
know it not. We got fine
Aster macrophyllus, & *Streptopus*
roseus with fruit all the way from
triangular ovate to round ovate or
even globular, and *aster acuminatus*
both the type & with the chaffy rays.
E. & W took barometrical observations
same places A & S did last week.

July 25
Saturday:

At home till 11.30, then to marsh with
Annie Loreutz who came last evening.
Found *Pyrola rotundifolia* & we showed
her *Salix balsamifera*, got *Muhlenbergia*
& *Potamogeton*. Then E. & W & I
went through wood road opp the house
for about a mile, got in corners of
pasture *Equisetum hiemale*. Did not
find many things in the woods.

1896

July 26
Sunday

E. & W. & I had team & drove round the Lake. Walter Buck driver. To Westmore & Long Pond. Got *Woodia floeris* on ledge beyond Roaring Brook. Lunched at the old deserted lumber house on Long Pond & got home at 5.30. At Long Pond got *Potamogeton amplifolius* & *heterophyllus*. Several garden escapes on the road. *Eutonia Pennsylvanica* on the Lake shore. Beautiful day.

July 27
Monday

Rainy & wet all day. Arranged yesterday's things & packed for home.

July 28
Tuesday

Home via Lebanon. E. & W. with us to Wells River en route for Randolph N.H.

July 31
Friday

at Mr Faxan's fr 9-11 am looking at their Fern Herbarium on great sheets. Saw *Asplenium viride* collected on Mt Nor in Aug 1887 by Mr Condit & sent to Mr Faxan as *Woodia hyperborea*: it is green enough to show the indusia plainly. Mr Faxan has searched for it since but has not found any.

1896

Aug 23.

B. & P. elevated tracks

at Hayswood at 8.55 met Mr E & C E
 Faxon, E. F. Williams & M. K. Rich &
 we walked till 2 o'clock in the
 Stony Brook Reservation. At or
 rather East of the Bridge over the
 outlet of Muddy Pond Mr. F. showed
 us *Polygonum virginicum* in a
 rocky place close to the new
 Reservation Road. at the outlet
 of the Pond in the bog got *Vaccinium
 cuneata* in fruit & *Polygala cruciata*.
 Then East by the Reservation Road about
 half a mile & a short dist say 100 ft
 on the right hand of the road to Catkill
 Swamp: quite dry walking now &
 full of *Typha angustifolia* & at
 one end fine *Prosternaria virginica*.
 Then it began to rain hard & under
 our umbrellas we walked to Hyde
 Park station where the others went
 home on the 2.15 & Mr Williams
 went to the house with me &
 remained for supper — going in on
 the 7.27. They rode out on the
 B. & P. elevated tracks, the first
 train —

1896

Aug 24 arr. West Burke at 4.15 & to the
Hotel at Hattie & I —

Aug 25 Am walked south from the
Hotel as far as Keonik's house.
Sall is his name —
on hill behind his house & across
the brook got *Gentiana linearis*
& *Euaphadium decurans*. The
Salidagos are *zigocae* &
serotina mostly, with *labi*
folia & *lanceolata* in the
more woody places. Of the
asters, *pinnatus* is everywhere
with *umbellatus* & *acuminatus*.
Pm I walked to Sugar House
& by path into the woods & out
nearly at the Lake. Got one
spec of *Salidago Canadensis*,
which so far does not seem plenty.
Evening Mr. W. H. Hays Ward, Editor
of the N.Y. Independent & an Orientalist
with his sister Miss Ward & Mrs.
Terry came. The latter is a botanist,
has charge of one of the cottages at
Smith College & is a sister of Prof
Hitchcock of Hanover. We talked
about the Will. plants till a late
hour. u. s. 9.15

Aug 26

Am. with Mrs. Amick down the road to show her the Asp. Chironianum place shown by the Swamp road. Got several Epilobiums in the Swamp some Bidders. (also a small *Spiranthes latifolia* new to my list and Mrs. Ferry brought up fr. the swampy place left hand side of road to Lake a fine *Aspidium Boottii*.

P.M. I worked till 4.30 on my plants of yesterday pm & today.

Mrs. Ferry brought home from the Lake three some curious *Solidagos* of the *macrophylla* flowers but larger than *humilis* - I pressed them all.

Aug 27

Rainy Am but I went to the Little Pond Bog & found a prostrate *Eriocharis* which may be *intermedia*, also *Cicuta bulbifera* & *Dulichium spathaceum* and a very interesting winter bud of *Kalmia glauca* with the flowers formed for next year.

It cleared in the afternoon & H.W.K. & I went to West Burke

for Mads who arrived on the express at
4.10. near the station found
Euphorbia maculata & *Panicum*
glabrum & *Gnaphalium uliginosum*,
& on road a large *Carex vulpinoidea*
& *Mentha piperita* -

Aug 28 PM with Dr Ward, Mrs Terry, Mads
& Miss Prince to the Gentian meadow &
found a few specimens, also some
Liparis loeselii in fruit & in the
Moxes Swamp. The moxes
grandiflora in flower (Mads) beside
several *Batrachium* in the pasture
& a fine patch of *Equisetum hiemale*
& *Parnassia Caroliniana*.

PM I worked on my Plants &
Hattie & Mads went to West Burke
for Mildred who came on the express
from Lebanon via Plymouth.

1896

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Aug 29
Saturday.

In three Row Boats Mildred M. & I
Dr Ward & Mrs Terry Mrs Bruch &
Mrs Baxter to Fern Cave on Mt. Hot.
Impatiens pallida very plenty.
Mrs Terry found one *Microstylis*
monophyllus in fruit which she
gave me. *Eriogonum hyssopifolium*
Paruesia & *Woodisia glabella* &
ray up on the rocks out of each
an aster probably *polyphyllus*.
Cystopteris bulbifera the pleuro-
form.

Ran with me & to Little Pond Bay,
where she saw a fine Kerou. I got
Urtica & *Urtica*, two spec in flower.
→ plenty of *Spiranthes*.

also in flower *Silene* & *Senecio vulgaris*.

Aug 30
Sunday.

At home till 11 am at work
on my plants. Then up the
Lake Side Road with me & I to see
the rock that fell from the cliff
& across the road beyond the
Echo Rock that projects into
the Lake. These Rocks fell
on Thursday of last week before
we came up here & the day

after Mrs Taxon & Annie Lorenz had been there. Found *Oxyopsis nula-nocarpa*.

P.M. to the Bog with Mrs Bruch & M.A., they watched for Birds & gathered mosses and got fruit of *Laurina oblongifolia* and a very typical leaved *Goodyera Meziesii*.

Aug 31
Monday

Rain all day — worked on plants in the house.

1 Sept
Tuesday

Morning walked up the Lake shore to Roaring Brook, observing the *Salidaga bicolor* & *var. concolor*. P.M. with mead to Miss Cobb's view & Elm Trees nearby where *Carex retrosa* & large *Marchantia* grew. Got Beechnuts, and a Hawk flew through the Glen just far away. Saw three Sandpipers in Little Pond Bog.

1896

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2 Sept.

Up the mountain with Mattie, M. A. I. & Miss Up. Pouch & Miss Andrews, while Will carried our lunch & wraps. Left home 9.30, & came back at 5. Lunched on top & then to North Outlook - Fine views of the Mts tho the sun was obscured. The Adirondacks plainly seen.

3rd Sept
Thursday.

Heavy rain all day. Did not go out.

4th Sept
Friday.

Around second Bog below the Little Pond, a flat marsh like surface fit to walk upon; got some mosses at the lower end. Then joined M. A. I. by the big Boulder & we came down by Miss Cook's view of the pasture. Then we all went to the Pond on the To Barker Road, visible from the top of the Mt. Signs imposed of the Vermont Chemical Co. Could not get in very near the shore on account of the overflow of water into the edge of the road caused by the dam. On the road found a stump

472
S. purpurea
of willows 15 or 20 ft high & 30 ft
long by the roadside new to us
took specimens. Also found
what looks like *F. balsamifera*
on the dry roadside with very
evident stipules - *Silene*
incubalis at the road, which
I have not seen elsewhere.

5th left
Saturday.

We all went up by Steamboat
at 10 o'clock to the lower end of
Lake & walked along the Beach
to the outlet where we had lunch.
Well came for us in the boat at
3.15 & we drove home.

Found *Grapholium purpureum*
at junction of road beyond the
outlet bridge and in the swamps
at outlet. *Urtica dioica* growing
wild & quite luxuriant leaves.
I never saw it away from road
houses before nor ever so
far from Smiths. Got several
mosses and two aspers for
future examination. Strong
South wind blowing all day.

1896

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6th Sept
Sunday.

Heavy rain all day. Took care of plants & changed & dried fingers.

7th Sept

A.M. to the Bog for *Eleocharis intermedia*. Then with Mullin & M.A. in row boat to White Slide on the West Ross side but did not stay long. P.M. up the wood path to the Raspberry patch & to the edge of the Coniferous wood beyond and in the morning at the house got *Aspen* *Claytonia* in variable condition of fertility & sterile forms: evidently from the effects of late growth after mowing.

8th Sept

A.M. started in Row Boat with Will Rice but soon came back seeing the gony out in Boat with Mullin. After they came back we all staid near the Lake till noon.

P.M. got some *Urtica* *serotina* in the rocky pasture near the Fingert spill in bloom. Then with Hattie & M.A. to Miss Cobb's new & Baxter's Beaver. The latter a circle of 12 black trees Diameter 8 or 10 feet & the berries 3 or 4 in. in diam, &

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intercalated at top to make a complete roof.

7 Sept Left Hillsdale at 7 AM for Lebanon House.

22 Sept. Left Boston at 9.10 for Woods Hole, ^{with A.D. Hodgson Jr.} Arrived 11.40 & visited Fish Commission & Biological Lab. The latter just closing for the season. Met Mr. Richard Rathbun of the Fish Comm. at Mrs. Dexter Hotel where we dined. Boat at 2.10 in pouring rain for Vineyard Haven. Stopped at Fishers Inn (Mrs. Chubb). Rained all the way.

23 Sept Expended our horse team & man at 3.00 per day. Drove the road north to West Abingbury. Dined at the Adams Hotel & left at 4 PM. Went to a creek below Adams. Saw Post oak, Viburnum acerifolium & dentatum. Aurologium Virginicum in meadow by West house also Menyanthes & Scopolium.

After dinner we visited the Agricultural
Show. Planted with the plant as well.
Then walked by roads & fields to the
top of hill 210 ft on map north
of town. Got various *Desmodium*
& *Leschkeya*, *Polygala* & especially
several plants of *Trachypogon purpureum*
in a little glade at base of said hill
near the roads. In forest *Leschkeya*
two shade trees very fine, *Tilia*
good a European cult form.
leaf bright green above & white below
Prunella *serotina*? very
very fine by the roadside, also a
dumpy *Desmodium capillare* by road

24 Sept

Drove for West Bakery to Bay Head, ca
11.15. Mrs. Susan Radman by the
beach, but her winter house was
passed a mile back on the road.
Explored the neighborhood. *Rhus copallina*
much altered in the slowness sample
by insects I suppose. *Podocarpus*
angustifolia in swamps by the light.
visited the light in pine & grassy swamps
on the cliffs. The light is 140 ft
above sea. First order light visible
for 20-40 miles on weather.
In a sand got a *Sphagnum* which

felt rigid & hard when taken out of the water. It was wholly guttae, it is *cuspidatum* var?

Noted *Asplenium eburnum* on the roadside in Chelmsford & found in a pasture a *Conifer* not yet determined.

Every rocket went better light & was charmed with its heady brilliancy under the moonlike sky.

Frosterium perfoliatum in good fruit. Sidedags Elliott in all the swamps.

25th Sept

Drove to Gay Head to West Tisbury by the South road. Arr 10 o'clock & thence to Edgartown at 12 over the snow. Abt 2 miles by W. Tisbury fine *Ashe* *concolor* by the roadside & beyond that some *spicata*. Lunched at Edgartown at a Indian Woman's home on Main St & strolled abt the town got some sea shore plants. & drove through Cottage City to Bayport Haven. Arrived at 4 o'clock on beach. Our driver Charles Conway. (good man.)

26th Sept

Home at noon via Woods Hole & Boston.

1896

Nov 13.

With Mr E Taxon & A S Dodge to Nahant
to search for *Grimmia maritima* -
Found it on the water side of
the road across Little Nahant at
the point where Egg rock comes
in sight. The sea wall at that
point was begun to tumble -
a slide may obliterate the
station as it is exactly under
the angle of the road when one
two big stones have already
fallen from the wall. The
green tufts with hyaline points
growing with it, (not now in
fruit) are *Bryum* (prob *cap-
lens*). On the road near by
the fruiting *Thuidium* *montanum*.
got several other mosses not in
fruit & not yet examined.

Atrichum angustatum was in fruit.
- *Hypnum cupressiforme* in fruit

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Nov 15. Sunday. walked along the Blue Hill
Reservation Road about a mile &
on the made bank at right hand
side of the road beyond the Park
Pump, found

Dicranella heteromalla

Leptotrichum tortile

Pogonatum brevicaule

The snow that fell night before
last covers the Rice woods, but
the roads were bare

Dec 11. Drove with ab Hedges to Durham East
Bridge & got mosses on the Meadows
growing on the Durham side of the
River. They appear to be

Pylaisia intricata

Helia hirsella

Pestica obscura

Pylaisia velutina

and a *Harpidium*

either *Xyrium fluviatilis*

- *Lycopodioides*,

a great many males fls in scaly
buds make me think it was a
fruiting *F. utricularis*.

Dec 12 1896. Got *Dicranum viride* fruiting
on Blue Hill near the Putnam
place on ledge.

May

Natural Bridge Va -

G.G.K. - H.A.K. - M.K. - M.A.S. - A.D.H. -

arrived from Richmond at 3.50 P.M.

May 12. Pleasant weather for our 3 mile drive to the Appledon Hotel, Mt. G.S. Lotts, Manager. but heavy rain

all night & frequent showers on the morning of the 13th. In P.M. of the 13th M.A.S. A.D.H. & I walked to the Glen to Lost River & I collected a fewmosses. On Hemlock Island *Crotophaga*, *Aimonea* Wallroth in great abundance on the roots of Hemlocks. Many other things seen. Tried to find my *Carex pedunculata* at the Salt-petre cave, but did not: saw two skids or old plants that may have been it. *Crataegus parvifolia* in bloom in the Glen. *Carex chrysosperma* Boott

14 May

Rain all day. Walked down to the Glen in P.M.

15 May

Fine Day - with A.D.H. M.K. & M.A.S. under the Bridge to meadows at angle of path. Got two earwigs, and *Chamaecrista* & mosses.P.M. walked with A.D.H. to Lincoln Hill - got a *Grimmia* & the three pine inops - *mitis* - and *peruviana*. the latter not infrequently.

1897

Jan 24.

Sunday. Mark & Tava came yesterday
 from to see Sunday here.

This Am. we walked over Blue Hill
 round Houghtons Pond back by
 the Park House where he was much
 interested in the six rattlesnakes
 largest 48 inches long, and one
 copperhead. The latter thro his
 skin abt 3 weeks ago, & has eaten
 nothing since he was captured in Oct.
 He was very dark colored, and
 his spinal column was so prominent
 that his body had a triangular shape
 rising on his flat belly. I expect
 he is starving to death.

I got *Emmendonin clavellata*

Guadon fulvaceus

Meria curvula

1897

Habersburg Bridge, Va.

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15 May. Many fine white oaks of very varying
Pellaea atropurpurea quite
 thick on some roadside ledges

16 May Sunday - All with A. D. J. & M. J. down the road and at Brook by old
 house got dates and in the
 Magnesia spring Basin one or two
 moles, one of which looked like
Famulus -

P.M. with Hattie & A. D. J., on top
 of the Bridge and to the Observatory
 where is fine view of the Blue Ridge
 Mts: the thunder drove us home,
 but rain did not fall till evening.

17 May. All we all walked on the
 Pine Laden Road: got large *Pellaea*
atropurpurea, saw a Red Bird.
 Thunder drove us home & at noon
 raining hard. *Lycium vulgare* by
 the roadside. near to us.
 Rain cleared off in P.M. M. K. rode home back
 with Miss Parsons: H. W. K., A. D. J. & I
 walked to the Glen to Lake Falls: Saw
Heuchera Americana -

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18th May.

Fine day. Am & all drove in two carriages to Lincoln Hill & home by the Red Hill. Our driver showed me *Lycopodium complanatum* on Lincoln Hill as rare here. A fine large Oak by the Brook at The Red Hill which may be *Michauxii*.

PM R.D.H. for I on Buck Hill - got *Asplenium parvulum*, but could not find *Polypodium incanum* which I got here in 87 - gathered 3 *Carices* - came home by the Churchgate, where is the largest Black Oak I have ever seen. Got an *Orthocentrus* on an Oak tree.

19th May.

20 "

21 "

From Wat Bondy to Luray.

Luray to Harrisburg

Harrisburg to New York.

31 May

Rainy day. Decoration Day & the Shaw Memorial dedicated on Boston Common. Am I put Smalls 50 Southern mosses in my Herb. PM on our elm trees by house found *Barbula papillosa* Wils., very marked with its rosette of numerous lobes after the heavy rains.

1897

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on the ridge
behind house to Little Pond Bog
& back by the edge of the woods.
Taking some mosses, one small
Hyssopus from a rock surface.
Nattie, Millie & Mr. I here with me
A Botanical party, Miss Prince,
Mr. & Mrs. Thatcher, Miss Sarah
Crocker & Mrs. Crocker went
down yesterday.

13 June

Sunday. Walked down with Millie & Mr. I
to Roary Brook. gathered some mosses
beyond to look for *Cyrtopodium arifolium*.
Rain began & got hard. Nattie sent
the Team for us, but we were almost
home only Mr. I rode. Mr. went
up (at 4.30. clear sky) Hillside path
opp the house & then down to the Road
home. got several moths, among
others *Autumnata*, etc. I never found
before. Every heard a short railroad
whistle on hill behind cottage & barn.
the men went out doors & fired rifle
shots towards the Hill to frighten away
the Fox, but I think it was a bird,
perhaps some owl.

1897

14 June
Monday

Rained till 11 P.M. Ma & I went to Sugar House woods for 11-1 I got some mosses. P.M. we all drove to West Burke for Florence Barran who did not come. Fine Sunset.

15 June
Tuesday

Am with Ma & I to Fishers Swamp house by beautiful woods road - Sugar House opp Mr Pauls place, where they have put in a still for making oil Cedar. P.M. Millie drove to West Burke with Rice & Florence came. They arrived just as a violent storm came down the Lake.

16 June
Wednesday

at last a really fine day. cold windy - no rain. Walked with Rice to Arcadia Hotel, he looking for Sheep, then I down the road to Arcadia to the School House & home by the West Burke Road. P.M. I went up to the First State Hooker for Seligeria but found none. Brought back some mosses. Never went alone to the Thides before. Very warm to the Faxon. The season is from 10-18 30 days according to the people up here.

1897

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17 June
Thursday

We all walked to Roaring Brook House by noon. Will Rice took his K in a carriage - he went to show me the exact spot where Cyprinodon will never be found, then he went home & we all walked back. I searched the roadside & high up the hill side for the Cypr. arie. but did not see any. Got very wet at Roaring Brook. At 4:30 with Will & George went to the house where the Holman family lived & got some things for the house, for rent.

18 June
Friday

Went down the road to schoolhouse with Will to show him the bird's nest in the swamp & then by the pasture & Rice's Paddy field. Got some of the same things as the previous day. Many showers in early afternoon & worked on my crosses all day.

19 June
Saturday

We all went along the Cold Brook path & I got 30 bags of crosses there & laid out the Barn. I worked on them in P.M. while the others went up the Lake in Boat.

20 June

Rain all day. Cloudy & cold in P.M.

21

21

1897

July 1.
Thursday.

Hattie M. A. J. & J. E. Williams & Mr. Greenman left Boston 9. am. Libanon 1.25. Waterbury 4.30 - half an hour late. Seats on top of stage 10 miles to Stowe. Green Mountain Inn, Mr. Lovejoy, clean & good.

July 2.

Left Stowe in Horse Mt. wagon, Mr. Lovejoy driving, for the Top of Mt Mansfield, 10 miles away. Fine day: one or two morses on old wall in village. Arrived top of Mt at one o'clock after some botany on the way. Pm we then walked to the Chin found it a long hot track. Got plenty of mosses & a few other things.

July 3

Morning we explored the sides of the Mts. plenty of mosses & fine ones. Pm Williams & Churchill who came at noon went to the top of nose & Greenman & I went into the little bog & got flowering *Samolus pallida* & *Sporium* behind the Bog near the house *Splachnum*, in a rammed circle 10m. diam, apparently on a cow dung, but how can cow

Tayloria

got into that Cedar Thicket I can't explain. It was close to a little trail made I suppose by small animals. Greenman found the *Conium maculatum* flowers. Four of them thus fortunately for each of us in almost the same spot I found mine last year.

Cottage

We are located in the little cottage below the nose: Porches, L.R. Kitchen down stairs & 5 bedrooms up stairs: we use the D.R. table for our work & consider ourselves fortunately located. Mrs Churchill keeps this Hotel & his wife is housekeeper & in general charge.

July 4
Sunday.

Very hot day. We all walked down the Road, I exploring the little cliffs just beyond & below the Barn for Mosses. Just at the Spring is a very large Boulder with many mosses on the floor of cavity below it. The others came back on acc. of the extreme heat. All at home - E. F. Williams, Greenman & Churchill at 4 o'clock started for the chin & went beyond far enough to see the Lake & the clouds.

July 5
Monday.

We four walked down the Mt Road (5m) to corner of main Road & there met Team from Louisa for the Stotch. Arr at 12 & lunched by the cold Spring. Got several Mosses on the yellow Birch by the Roadside under which we lunched, and at the Spring collected cold Hypnum & one Mniun looking stiff stem & leaved moss. There have been two bad slides for Mt Mansfield this Spring & the road is impassable for horse & Team. At one we went to Top of the Stotch & up the slide in same place as last year, which I followed exactly both going up & coming down. The *Phlegmacula* was not so plenty as last year, but we all got 4 or 5 specimens. The *Asplenium viride* was in great profusion. I got many mosses, one I think is *Myurella fulacea*. No *Acanthia* or *Bellaea* or *Aspidium fragrans*. Back to Team at 4.30. *Goeckerman* left us at the corner to go to Shower & then Home. We are up here at 8.10, picking up M & S way down the Road where she was busy studying Birds.

60
July 6
Tuesday.

We were very busy Am taking care
four plants & the day was very hot.
PM I walked down the road & collected
a very few mosses, among them
a reddish Bryum near the house.

July 7
Wednesday.

We walked to the chin, calling
at the Ice Cave on the side of the
Mt. where there is quite a snow
Bank, 10 or 15 ft long & 4 or 5 wide.
We skinned along the west
side of the top of the Mt & I got
several mosses & Salix Elva arctica,
Polygonum viviparum & Hieracium
alpina. We ate our lunch at
the Spring & arr. home at 3.30.

July 8
Thursday.

We all came down the Mt. in Mrs.
Lovesay's Big wagon, our friends following
in another team. Went to Snuggles
Notch, shopping at Bingham Falls, where
Churchill & I went to the rocks at the
foot of falls: I got several mosses.
We hunted at Great Spring in the
notch, and I searched the Brook
but found no more of the curious
rigid Minn. leaf I found before.
We all walked up to the highest
plant on the Road: the Oak

slides across the highway had been
mended. Churchill went up
the Cliffs on the Sterling side, but
got nothing more noticeable than
Woodia hyperborea. We left at
4.30 + took hotel at Snow, in a
very warm afternoon.
The heat has been very severe
all over New England:

July 9
Friday.

Mr Loujay drove us to Wapodung
to the Train, we got the *Arcti-*
striata on Rocks we had
noticed going up.
Churchill this family spent at
Snow over Sunday. E. F. W.
came along with us + to Boston
at 4.30 + we spent at Lebanon
fr 12-3 + are in Boston at 7.

1897

Mr. Chasaut House.
White Mts.

July 21.

Left Boston 9.40 a.m. here
at 3.30. Rooms 201.3.5.7.

July 22

Rain all day very violent
at Sundown. Walked on the
planks across meadow close to
the power house in P.M.: got
Trematodon ambiguus what
I call *Bryum atropurpureum*.

July 23

Fine morning many people went
up the Mt. Heavy shower sets
11 & 12. P.M. I walked to the
Ridge opposite the house.
Under the culvert of RR where little
brook runs was the Bowby ally
on rocks submerged what I call
Hypnum (Limnolobium) malle.

July 24
Saturday.

Am waked by new road via Barn
to Base Station road. Only to the
Bridge a rod or two on Base station
Road as the Thunder warred us
home. On the timbers of the
Bridge got a pulvinate tuft of
moss which I worked on in
the afternoon. The sex or eight

capsules I did not disturb, but found *Archegonia* at apex of stem in a gemmiform flower, and in the axils of almost all the stem leaves abundant gemmae. The ascrobation of leaf was most like *Ditrichum* in Dixon's manual, but the leaf itself was not setaceous. Also found plenty of the Blood Red Bryum + *Trematodon* growing with it, and a *Cheesia* looking moss with very black twisted seta.

-Rain in P.M.

July 25
Sunday.

Very heavy rain in A.M. cleared somewhat in P.M. Walked South of the house to highway to gate where the road runs to new dam for new pond on S. side of Road. In the wet roadside & in running brooks got various mosses. Very small ripe *Trematodon* on roadside & a carpet of the *Straminea* group in overflowed pool. Two or three *Hypha* on stones in cold brook.

1897

26 July
Monday.

E. & F. Williams came from Kandoeple
8.48. We walked up the road
to Base Station lunching on the
roadside. Some odd caries &
a few mosses were all we got,
but the walk was fine. View at
the new Boarding Ho. at Base
was very fine. Came back on
the afternoon train. E. & F. W.
staid to dinner, left train at 7.20
a bright day. Ther all day at 65°

27 July
Tuesday

Ther 6. Am 60°. Day cloudy, but the
clouds were high. Worked on mosses
& wrote letters in Am up to 11.30
then walked along the Mustaken
path till lunch, & on a fallen
log got a great many mosses.
P.M. at home.

28 July
Wednesday.

at home all am & at 12.50 took
train for Profile Ho. as Helen Childs
had been here then. Found many
fine mosses; in fact I don't wonder
Mr J. P. James used to go there a
great deal for mosses. Home by
5.40.

29 July
Thursday.

Helen Childs went home 8.45. Rain in am.
Pm I walked to Falyans & part way up
Net Description & then by RR to White Mt
House & home by meadows & highway.

30 July
Friday.

Rain more or less all day. Pm walked
down the road half way to Crawford
Hk. stood behind the alders under
my big umbrella to avoid the
driving rain. Litchie & Mrs. Seane 7.30

31 July
Saturday.

Walter Deane came at 8.50. He
watched Litchie start on game of
Golf & then walked over by Barn
to Road. Pm at home watching
the rain. Mr Deane went on 7.20
train, which was late.

1 Aug
Sunday.

Cloudy & showers over by the Mts.
Litchie walked in am & Pm, the
rest of us staid at home.

2 Aug
Monday.

Tried Golf with Litchie in am
driving across the River & coming back
from Milled. S.M. left on
1.43 train & right after Harry Litchie & I
walked to Crawford Hk (day very fine).
back with Lucy Thoms on 3.20 train.
rest of day at home

1897

3 Aug
Tuesday.

Harry Edith started to drive to Libahou via Crawford Hotel at 7.30. We went up to the top of Mt Washington by the afternoon train. Mr E. Taxon & Mrs. Slosson on the train. At the top were Mr E. & William & Mrs. Mrs. Henry Williams.

4 Aug
Wednesday

A foggy day. We walked down the road a mile in the morning. Ran west by Edmund's camp to the head of the Great Grief & got a few things. *Conostomum boreale* in fruit. We came back by the RR & over the rocks behind the house: found *Tetraplodon* in the holes of the rocks. Foggy & bad weather all the day, but a magnificent red & purple sunset.

5 Aug
Thursday.

A very perfect day. We went into the alpine garden down the cone & out by the Pasture. Had our lunch by cold brook in the Garden. Found *Guaphalium rupestris* on the way down in place where Mr F. & E. W. found it last year.

I got many mosses and in the
Brooks *Grimmia rivularis* - Mr.
Faxon said it was one of the
finest days he ever had on the Mt.,
the air quite October-like.
On the evening train came Walter
to the Summit of Mount Washington, - 6300 feet Above sea level.

WASHINGTON, N. H., WEDNESDAY, AUGUST 4, 1897. J. F. Tumbell

A PARTY OF NATURALISTS AT THE SUMMIT.

Last evening several ladies and gentlemen, interested in the study of plant and insect life, came to the Summit and will make a prolonged stay. The party includes the venerable Mr. Edwin Faxon of Jamaica Plain, who has been a frequent visitor, Mr. Henry J. Williams and Mrs. Williams, and Miss Emile Williams of Boston, Mrs. A. T. Slosson of New York, Dr. Geo. G. Kennedy, and Mrs. Kennedy, and Miss Ingell of Readville, Mass., and Miss L. R. Woods of Boston. Mount Washington and the neighborhood furnishes abundant field for study of geology, botany, and entomology. Insects and plants are found here that do not exist in other places. Here on the Summit boulders have been found that were foreign to this locality, which correspond to the rocks many miles northwest of Mount Washington, evidently having been brought here in the glacial period. President Hitchcock of Amherst College held that Mount Washington had not been submerged, but his son, Professor of geology at Dartmouth, found evidence that it had shared the general fate of the lower mountain tops. On the point of rocks just beyond the old Signal station there are evidences of glacial action, to which Prof. Emerson of Amherst College has called attention. Then there is the Mount Washington butterfly, *Kionobas semidea*, found elsewhere only in Greenland, which is abundant late in July or early in August, and recognized as being rare only by those who have become familiar with its habits. There is no end to the field of inquiry in this high altitude, and appreciated only by those who have made nature in its varied forms a careful study.

Took a
pad & home
to this
my clay &
but a
dim hail
which we
knew at home,
the Mt.
my down on
sided forgotten.
each just as
Ann Label at

6 Aug
Friday.

JGS

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but
as
the
The
we
3.30

7 Aug
Saturday

worked steadily all day on my Mt
mosses & got them all in press.
Ann wrote letters. Mr Faxon came on Mt train
at 3.25 & I & Leby are with him: we walked
back here the to Crawford's at 4.47.

I got many mosses and in the
Brooks *Grimmia rivalaris* - Mr.
Taxon said it was one of the
finest days he ever had on the M.H.,
the air quite October-like.
On the evening train came Walter
Deane. Mrs. Slosson heard
of her brother's death, Mr. Fumelle
LLD of Hartford.

6 Aug
Friday.

E. F. Walter Deane & I took a
short walk down the road & home
by 11 o'clock while E. F. W. & his
brother & wife went over clay &
part way up Jefferson, but a
hard storm ending in hail
came on at noon, which we
fortunately escaped being at home,
but it was severe on the Mt.
As Mr. Deane was going down on
the 1.45 train we decided to go too.
The Williams' came back just as
we started. Arr. Lohel at
3.30.

7 Aug
Saturday

Worked steadily all AM on my 147
mosses & got them all in press.
PM wrote letters. Mr. Taxon came on Mt. Ham
at 3.25 & I & Feyans went with him: we went
back here & he to Crawford at 4.47.

1897

8 Aug
Sunday.

changed my moss paper 3 times in the hot sun.
Reading Hensler's Farthest North about
all pm evening.

9 Aug
Monday

HWK on the 9.15 to Boston. I to Crawford
House & to Beecher's Cascade to find
Hyssopus Jamesii, got several mosses
but am doubtful of Jamesii; dined
with Mr Faxon at 1 o'clock & started down
the road for cliffs below notch but the
rain drove us to station & I came home
on 3.20 train.

10 Aug
Tuesday

At home all day rain & wind.

11 Aug
Wednesday

cool windy day with showers
all round. At noon Ma & LRM
I walked round the Barn road
back by Fabyans.

12 Aug
Thursday

The cold rainy morning cleared with
NW wind after breakfast. Ma & LRM
& I walked to the Crawford Ho. Mr Faxon
had gone out. We came back 3.15. 12.13
with Vida Sudder & her mother who came
to see Lucy, lunched with us & away for
Shelburne at 3.30. I walked on the
hill behind home but back in town at 4.

13 Aug
Friday

To Crawford No 8.52. Fine cool day. No taxon
I walked down thru the notch searching
for Homalia; got many many fruiting
mosses. Dined there thru 3.18
vide page of Aug 30th for White Pine

14 Aug
Saturday

To Crawford No 8.52 + No Taxon and
walked down the road again examining
the ledges & rock, & brought back
many mosses. On the roadside
near top of the notch I picked a
Chimacium which we thought might
be Hammania alleghaniensis, but am
studying it at home with Dixon &
make it Chimacium leucoviridis & so
wrote Mrs. F. Rain in evening.

15 Aug
Sunday

At home all day at work on
mosses & writing letters. Very
warm day. Ther 60° much rain here.

16 Aug
Monday

Heavy shower 7.30 am. Clear & we
walked by RR to Ammonoosuc Fall, &
back by high road. Went down to
Crawford at 1.43 back 3.17 today
good bye to Mrs. Fayon who goes
home tomorrow. Heavy showers at
4.30 o'clock & at 7.30 when NWK
came from Boston via Lebanon.

1897

Aug 17
Tuesday.

By 8.45 train for Whitefield to call on
Walter Deane. Arr. 9.55 & drove by
the Mt View house to Dr R C Waterskins
place where W.D. is staying. The
view of the Mts from Mount Hillcock to
Madison was very fine. We
dined at Lodges Mt View hotel &
walked to the station 2 1/4 miles in
P.M. Train at 4.02 arr 4.57.

Aug 18
Wednesday

One walked to Falls of Salmon
with at home on horses & the
played one round of Golf before
the rain set in. Ready Hansen
today.

Aug 19
Thursday

Fine day. P.M. we went to Profile
House & saw Jack & Belle. I ascended
down the road a mile, & on a Boulder
found *Homalia jamesii* & on a big
yellow Birch tree by lower end of
Profile Lake at Roadside found
Aracampylodon splachnoides -
Home on 4.40. Furious rain in evening.

Aug 20
Friday

Mr Page came to spend the day at 8.45.
I played Golf with the Guilds, wrote to
Mr Jaxon about my yesterday's finds -
Mr Page went 4.57. Every Sunday evening

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Aug 21 At 8.52 NWK & I to Tryckney to call on
Sert. the Merrill: returned 5.05. Then
Lurclain & I had an hour on the Golf
field.

Aug 22 At home & Service in Am. P.M.
Sunday had I to top of Mt Stickney.

Aug 23 Am Lurclain & I round the Golf
Monday course. I in 89. P.M. Golf
Tournament between Wainwright
& Mr Phelan.

Aug 24
Tuesday. Mattie & I left the Mt Pleasant for Mt
Wainwright at 12.5. Very cold
for the James & Theresa & Lurclain
to home at 4.25. Rain all
P.M. Ride to the Wells River to work
from the photographer. There
longway back us with money &
we got safely in. Rain to the
Hotel at 4.30. Supper at 6.30.

Aug 25 The weather looked bad on, more
Wednesday. with top of Mt. with rain only
just at the summit, & heavy rain
in P.M. Mt. Wainwright & the
coast beyond still dark. In
evening we had a fine view of the

1071 ft
1000 ft

of the Iron station is 400 feet. The
chain is abt 100 meters higher -
Killingham Peak. Between the two
summits, Kaskadee in the NW part.

Aug 2.
Monday.

Threatening but no rain. Explored
near the house. Good fern species
plenty in Swamp, especially the
Golden rods relatives. Found
some Taylorea back of meadow
Mertensia lower as described in
my note book. Could not find
out the station in Swamp.
Hattie went with uncle Sam to
have view of Lake & surroundings.
Then went to log house hoping
to see Heliotape on Washington
but cloud came up, saw Heliotape
on Killingham 67 miles away &
pole on Camels Head 12 m. away.

Aug 2.
Tuesday

Washed abt house for
Taylorea found stone plants &
stationary in my note book.
Then walked to the house & walked
a mile for eagles or Ravens. Heavy
fog settled down on Mt in evening.

1897.

157

Aug 20
Sunday

Spent most of the afternoon, the top of
Taylor's - obvious note in the
Field Book for next year use, the
shrub plants. Fine finding
Carex paniculata in the Bog.

Aug 21
Monday

Came down the Mt to lower. Then
packed with Miss Russell & Lowell &
left from Annapolis on 3 o
train at end of package were sent.

Monday
Aug 30

Remained in evening after spending
noon hour with E at the house.

The White Pine on highway from
Tahyau to the Base of Mt Washington
is growth 9 ft 8 inches at four feet
from ground; Height as estimated
from shadow 120 ft.

Oct 8, 1904. This tree is I believe
now cut down

1898

Sat.
Feb 26.

Walked up Lewis Brook to the line
on Blue Hill, then down & across
Reservation Road to Chestnut Ridge
River - along by Reservation
Boundary to Crossman Pines, &
out to Crossman House, by his
road, almost to Canton Ave, but
drove across the Babcock place
& back to the top of the hill, coming out
at New Berlin Ave, then over
to Blue Hill Rd & home. Snow
- roads hard enough to walk
uncomfortably, only a few bare
warmer places to transition of
going. Saw no birds: got a
few mooses: *Taxodium* in the
Brook by Crossman's Pines. Some
Asplenium on a big rock in Bab-
cock's meadow.

Feb 9.
Thurs.

Ther 52° at noon. Many grasshopper
are much longer & livelier; of a brown color
in the grass by cherry trees, also black
spiders.

Feb 10.

In the Brook on Elder's place saw a
frog and also the water skater.

Feb 12.

On my first walk in the woods,
on the river side not far from the
millstone got following *Asplenium*
argyriaefolium etc.

76 1898

13 Mch.

The roof of Williams house caught fire at 11 o'clock this morning & soon set the whole Milton fire Dept up & it was soon put out. While there we saw a large flock of wild Geese go Northwards. Then 52°.

This evening the frogs are croaking up by the water spring at the hayrack.

1899
Monday
6 June

Wilmington N.C.

Left Boston 4 A.M.: Newk. m.c. & v.o.
Saw front for a moment only at the
station at Plymouth. Arr. West
Broke 3.50. Met Faxon there, having
come over from Fannin at noon.
Rice took us to the house with new
hairs & new horses. Mr. Faxon thought
of orchards at house: he a civil
engineer - botanist. Evening cloudy
& cool. No rain here for two weeks.

Tuesday
7 June

Fine day: 50° at 7 A.M. and 72° at
7 P.M. Met Faxon & I went up
the hill back to the sugar house
to look for yellow-bellied shippers.
found the batch of 3x. They do
not differ much from the form
in the loggy pasture up the house,
and were almost exactly between
pubescens & breviflorus. I took
one that was a plain yellow (no
spots) & yellow not brown like
the rest. A good many mosses,
chiefly on trees. Took a bush I
think & other old ones. Some at
them after looking out the mosses we
went down the road in the
brush got *Phragmites* *Swainii*
Phragmites is *Swainii*.

1976

June 8
Wednesday

Mr. Fay and I bagged back of the house by
path & woods to West Pond, which
we had never visited. Got *Procyon*;
& several things in the mud of the
bog: *Blarina* & some *Peromyscus*
& some at 1 mile by the road. We
were staid at home arranging plans.
It rained here 4 days 34°. Mr. E. C.
Williams came at five.

June 9

Mr. Fay, Mr. Williams & I had the fair
& gray in blue hair with rice &
were gone all day: down the road &
stoppe, at diff. places almost to
West Burke. Got 4 *Peromyscus*
& in the bog above by road at 1/2 mile this
side of first of the 3 bays or Camps. One was
new to Williams & I at the highest
place. Found two good *Peromyscus* & two
other ones: 2 *Peromyscus* & 2 the other.
It was his first collecting but I
made schedule as follows. To find the
place. Later for fruit.

Going by canoe, we went with
Mott & Mr. 2 before them. At West Burke
found in it the first *Peromyscus* & 2
25 paces, making a little tonight. Then
about 1/2 paces where a little to left
& there are some *Blarina* holes, one

The two minor spots on the Salix
plants

The day was very warm on account of the
hottish sun. Little rain was
expected. The first shower was a light
drizzle which did not last long. It was
not an unpleasant surprise as it was
just what was needed. The weather
being much better than the day before.

At 11 o'clock, E. F. & E. F. W. & I went
up the lake shore to Roaring Brook.

Lunched there at two o'clock at 5.
got many mosses by roadside
Eucalypta.

Hyssopus elegans ?

Neckera on under a rock.

Aphyllon uniflorum

Cornus circinnata

very beautiful clear day. & a
N.W. breeze blowing. Fair at 7 am
under 50

1898

11 June
Sat.

Rain all day. Fixed plants & dried drawers at the stove. PM E. F. W & I went up back of the Sugar Ho to the *Cyp. pubescens* place: a flower he had never gathered. Came out from the Hill at the pasture near lake & over little hill, where I got *Polytrichum piliferum*. Evening hard rain again.

Tuesday
12 June

Rain & showers all day, but in PM Mr Taxon, E. F. W & Mr Floyd started out for Dixie's Bog; at 5.30 Mr Floyd came back to say Mr Taxon was hurt, had had a fall & fainted away. Rice hitched up the horses & with pillows & rugs we drove down to the Gentian meadow & found E. F. W near the fence opp. the little Barn & Mr Taxon's lifeless body: we tried to pour a little whiskey into his mouth but to no effect, as he was pulseless & already the extremities getting cold. We lifted him into the Team & came home. He had been stricken while attempting to get over the fence & had fallen backwards: the others were

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not ten feet away from him. While shopping a moment at the fence before after coming up the little hill he said "I shall not go up the mountain with you tomorrow." these were his last words. It was a beautiful place to die in, the sun came out clear warm & E. F. W. said the view down the valley was peaceful & beautiful to look upon.

Monday
13 June

C. E. Faxon came on the 4 PM train. Hattie & Ma I went to bed early in the morning. C. E. F. & I to Boston on the night train arr. 8.10 Tuesday morning. Leave E. F. W. at Millis for the balance of the week.

1898

Mt Washington

20 June
Monday

Left Boston at 12.30 with a Dodge & Freddy Dodge & Mr Greenman for the Mts: arr Fabyans at 7.40 after changing cars at Intervale. Mr E. F. Williams met us at the station at Fabyans having come over from Willoughby.

21 June

Left Fabyans 7.40. heavy rain. Engine had hard work to push us to base had to stop twice to make it. 2nd trip at 11.00 and hard wind & rain. Ther 36° PM we wacked down the road a very little ways but soon came back. behind the Barn got *Tetraphodon minoides* & a *Bryum* in young fruit.

22 June
Wednesday

Slept well last night, window wide open, steam on all over the house; they got five rooms ready yesterday but the beds linen were in no way damp. Ther 65° in my room this morning & 40° outside. The clouds were trying to blow away & we started after breakfast down the Road. E. F. Williams, J. M. Greenman, A. D. Dodge Jr. Freddy Dodge & I got *Rhododendron Lepponiense*

22
Lonicera procumbens,
Diapensia Lappacea
Silene acaulis all in fl
also *Salix Uva-ursi* ♂ & ♀ flowers.

It began to rain while we were at the
Cow pasture & after awhile we came
home to quite a snow storm at the
platform. P.M. Greenman & I got a
few mosses back of the house & behind
the Tip Top House but the cold rain
drove us in to arrange our plants.
Three young fellows with guide packed
up into the Tuckerman's Parson & had
a cup of coffee by the Hall stove, then
walked down the road.

23 June
Thursday

Day doubtful at first but cleared off.
Took the Great Gulf first but found
hardly anything there except
Salix herbacea ♂.

everything backward & cold.

Then went down the road & to
Alpine Garden by the Cow pasture
signboard pole: much pleasanter
there in the sun with no wind.

Empetrum in flower with frayed
stigma.

Arctostaphylos alpinus in line

with the two boulders where we found
it last year. It has its flowers in
clusters of three in a scaly bracted
cup and each little fruit on a
stout pedicel, the corolla remains
~~long~~ long on the young fruit. Probably
the fruit does not mature, but
there was plenty of it on these young
plants: the leaf also is far less
noticeable than when older, less
shiny & smaller & the plant
might easily be passed by.

we also got five

Salix sylvicarpa ♂ & ♀ -
" *Uva ursi*

Cassiope ~~*pasquii*~~

Houstonia missouriensis large fls.

Cypripedium *trifolium* fl

while *Veratrum viride* was not
a foot high & about in the
condition April 1st has it with us
Hieracium alpinum.

Carex capitata

Luzula spicata

and I filled my bag with mosses,
by the way the mosses seem
more sterile than usual this year
? Do they have off years in
flowering?

We came out of the Alpine Garden by the
Horseman Slide, where Freddy could
slide 50 to 100 feet on the snow bank.
one hour and a quarter for the garden
to the Road. weather fine all day.

24 June
Friday.

In clouds & heavy wind all day.
Forenoon spent on our plants &
mosses. P.M. Williams & Freeman
went down the carriage road to the
5 mile Port, getting out of the clouds at
the cow pasture. I staid out an
hour or so round the Barn & the
rocks near the house on roadside
after mosses, esp. the *Polytrichum*.
Ad. Hodges did not go out. Clouds
rewind all night.

25 June
Saturday

Very windy & cloudy this morning.
Mr. Horne who came up on train said
wind was very severe at Jacob Ladder.
so we gave up our Lake & the Clouds
trip & ~~fixed~~ dried our driers by the
Boiler & took care of plants.

26 June
Sunday

Strong wind & thick fog. but clear for 1-4 weeks
when we tracked down to the Cow pasture &
back. Wind very high. I got mosses. Evening
the fog set in again.

27 June

ad. Fred & Freddy & came home having P. 7. 24.
Freeman still in dark cloud.
arr. Boston 3.25 the the notch.

1892

July 1.

Went to Medford & on high walk by Medford Club so got nice spec. of the *Bygonia*. I got them with Mr. Goulet. Day very hot & I came back to Boston by the electric car.

Wilmington, N.H.

7 July
Thursday

Left Boston 9 A.M. with Nick and Rebecca Webb: are on line, fine day with warm S. wind. Picking on edge of lake got *Microtus* & *Peromyscus* in sand, *Eurys*?

8 July
Friday

Spent morning on Cold Brook path & in Mr. Cheney's land: got abt 20 things that I had listed but had no *Mercurialis* spec. of. Also one new spec. *Polypodium ciliolatum* not before reported. Mr. Cook came from plants, & a good rain came between 4 & 5. I got *Rumex crispus* by the Basin & *Pastinaca sativa* in the garden. Evidently things may be accidentally in the garden this year & introduction thereof. Got a few pieces of the wall of the fountain basin.

9 July
Saturday

A.M. we all came down to the Calypso swamp, stopping at Dr. Cheney's house his front porch & after walking to see or get flowers. In the place

I started on June 7th I found one good
fruit of Calypso, & near by found
also two more good fruits. The fruit
is long & slender, not a round & rather
soft & is quite different from what I
expected. We came back by the
road, near Calypso Swamp up on to
the Sutton Hills & home by the Cemetery
& out at the school house, reaching
home in a windy rain, tho the morning
had been quite pleasant, got several
things for my Herbarium, as

- Calypso borealis fruit
- Dracopis barbaeus, on roadside
- Malva moschata
- Asclepias Coriaria
- Urtica Urtica
- Cornus alba-alba
- Osmorhiza brevis
- Protophormia polytrichum
- Asclepias
- Asclepias

Worked on my thesis till 4 PM with
Tom & John, then went out to
Sutton Rock with Rebecca & Max:
got Urtica alba & saw the yellow
Cypripedium. Not too good will.
Found a very fine red & black
stone.

72
1895

10 July
Sunday.

After coming, for yesterday's plants, went
out around Little Pond. The day was clear
cold & windy, then at 7 am. or so, got several
things to pick, such as *Trisericaria*.
Opuntia Pennsylvanica was
growing in the sphagnum bog, young
shoots on short pedicels & leaves with
glandular crenulate edges. Bush or
tree 4 or 5 feet high; I thought I
had some *Amelanchier* at first.
also found *Salix balsamifera* with
my bag of Sept 1895 still on it.
Worked on the plants till 4 pm. then
walked in pasture opp the house, &
brought back several things. Evening
wrote *Amelanchier* & *Trisericaria*.

11 July
Monday

Very cold day (this 11th) with N.W. wind
blowing. Lake very blue all day.
We drove up the lake shore & by the Long
Road road house at 1, where, got about
midday by the roadside & found some
Sanicula, did not find again.
Arnica montana by the Little bridge near
Mr. Farber's house, so suppose it has
not perished. Worked all the fore
on my plants & copying notes.

12 July
Tuesday.

Bright clear day, cool but not cold as yesterday. After dinner Diers walked to Loring, Brook & back, getting several common things by the roadside. Fine on the roadside S. of the house & in Indian meadow getting many things & all in wet places by the roadside & by the brook in Indian meadow. Staid some time at the spot where Ned Faxon had his last look at this cat. The island in was a fair picture. He last saw with curiously vision.

13 July

Wednesday

took care of plants till 12.30 then walked on the hill opp the house & came out beyond the chimney & then to the road. Saw leaves of *Adiantum orbiculata* but no flowers. The thick wood at foot of hill had many plants in more open & sunny places. Took walk down to the school house & in the meadow below, did not get much, but took the peculiar leaves & small fruit of *Polium* *humboldtianum*. A tree 30 feet high but extremely like very little *Sorbus* from last Sunday. Also got a new one, under the bank near the school house.

1898

19 July
Thursday

at 8:30 A.M. we drove the out of
the lake & arrived at the house of
Sawyer's farm. This is situated in
the plains of Montana. There we
went to the beach & Bay for
lunch. I got *Calla palustris*,
Menyanthes & *Corydalis*.
In the afternoon we drove down to
Barton. Found *Menyanthes* *Canadensis*
in fruit, while *Calla* has not yet
fruit. The fruit was almost a
brown in some of the old plants, while
in young shoots it is white so it is
also in young shoots of *Calla*.
Near the river found a good
Habenaria *radiculata*. No fruit
on my *Salix* *proserpina* by the
roadside. Some *Menyanthes* near
by was new to my Willoughby list.
Home at 6:00: evening cloudy, but
day has been very fine. We swam
at the lake & dined in the woods of
Swamp. There was however nothing to
interest me in the ride through Barton
except the Birch blowing the Birch
Bark, until after the last of the
six R.R. crossings was passed & then
one was in Sutton & the region at
once became more Willoughby like.

15 July
1914

the heavy plants. (We walked down
the road - around Little Pond to Marl Bay
through woods & swamps to Gentian
meadow then off Hall's house by
a road through sugar orchard &
corn field to the blue-cupped house
to Bishop's bridge - on Broadway road
then to Bishop's house & met Mr S
- Bishop & we looked for some time
but did not find it home & home the
swampy field to Christian meadow
house by road. the upper etc.

into the woods, & over up the top: with
very few, generally, at all: most all
gone in the swampy country place - 3/4 of
the way to top. Lunched at the top &
then to Liworth Outlook, collected *Samolus*
Canadensis, *Habenaria psychotrioides*,
Impatiens balsamea & *Picea rubra*. also
Agrostis & *Polytrichum* on top. Home
at 5.15.

1895

July 17
Sunday.

Went out very early, went to Little
Pine looking for underground parapsylla
in the rocks. but found nothing.
Day very warm, collected a few things
Ran at home.

July 18
Monday.

Went straight from the front-
door towards Little Cliffs & then
northward along as high as I could
go under Pulpiti Rock to top of
the first slide: quite a fine plateau
with good trees above the cave you
see for the house: got one *Aralia*
gymnophylla & saw lots of *Ellium*
tricoccum: not much else.
However till I got to the slide:
Red Oak wh. I never saw on that
slide before, also *Rhus Tex.*, and
apocynum cannabinum: and high up
in the bank a red *Populus*: came down
No. of the Slide. Home at 12 o'clock:
Went down the road & a fine place
where I finished the road work &
observed from wh. I have not
named. Also *Eriogonum fasciculatum*
& *Chamaenerion* in flower.
Temp of Froggyle Brook 47°
" of the air 50°

July 19
Tuesday. Went out down the road at 4.30 and
it soon began to rain: visited the
place where I got the mice here
yesterday & collected several more
for study of the pectination. (R. M. Patton
& M. J. went to West Duke to visit
Lucy Woods: very heavy rain when
they left continuing for two hours: at
10.15 in the evening rather rain. back
I came having left M. J. at hotel, at
West Duke to wait for Lucy's train
delayed by a washout. Very
sultry night. While putting my
sieves in the sun on the piazza roof
just before the heavy rain the thermometer
marked 110° in the sun on the roof.

July 20
Wednesday. Lucy Woods at the Hotel; she
having arrived at 10 o'clock last night.
We came back to the hotel at 12 in. hot
sun. I went to the road to collect
bats & collected some more which
I boxed & sent Dr. Woods to for a study.
M. J. & I went to work on very hot day.

July 21
Thursday. A hot day with sun: but no hurry now
in the morning, but got a few weeds
in the garden before the sun came out.
After dinner I went to the West Duke
to see the pectination of the pectination.

1898

garden etc of the Pond forest among
some old clumps. *Adiantum latifolium*,
Rhodora & *Kalmia angustifolia*
fine *Myrica* & *Chamaenerion*. Then by the
road to Sutton some school house
Garden, etc. *Pyrola rotundifolia*

July 22
Friday

Hal & I with Lucy Woods & Ned by Boat
down the lake & tracked on Long Pond
road to & beyond the Pond to the Top of
the Road where begins the White Mt.
view. There at 4 o'clock leave again
by Mrs Richardson with H.W. & Rebecca
overtook us & we were brought home
by 6 o'clock. we lunched by roadside.
Did not get many things. *Glyceria*
Canadensis - *Antennaria vulgaris*. Day
very fine with N.W. wind.

July 23
Saturday

Threatened rain all day. Left down
the road short distance. Then in the
light no woods. got *Adiantum*
Goldianum & *exaltat* my guest from
before with ferns near wooded
place is also *Goldianum*, the
with an unusual *Trisaxipala* sterile
found.

July 24
Sunday

All. walked with Hal to East Spring
Brook & saw at home. Day very
hot & oppressive.

July 25
Monday.

Nash left at 7 for the 8.12 train. Louis
and I went over with him. At
the Newark West corner 2 miles down,
Belmont & I with Nash got out & walked
up the hill to the house of Rev. L.T. Gray
where we sought shelter from the
rain. Had a very pleasant call.
Behind the house found *Spiranthes*
- at the roadside & in the woods
Saprania officinalis, *Malva sylvestris*,
& a *Veronica* tall & smooth, said to
have been brought from the West.
The train came along & the rain
had stopped so we drove to Newark
Park & turning off by a cross road
drove out on Long Point Road to Dr.
H. J. Taylor's house, & across the
little bridge at which I collected
leaves, & *Scilla hexagona*. I saw there
two years ago. Then by the road
back home: got several additions
to my *Spiranthes* list. *Campanula*
trachelium, *Thymus* *serpyllifolius*,
Trifolium arvense, *Plantago rugelii*.
After arranging my plants in boxes
went to the woods on top of the hill
& down to the road to the house: got
Delphinium elatum, *Scilla hexagona*, *Scilla* *hexagona*
along the road between Temp 43°, near beyond
the Big Boulder to the highway.

98/1898

July 26
Tuesday.

Went to Sutton School to seed a little
tray beyond Mr. Humphries the first
house. Brook there very full from
last night's thunder storm. At Red
house got *Symphoricarpos racemosa*
& *Berberis floridum* both escaped. In wet
place in pasture *Galium tripartitum* was common.
In pasture on North side Sutton road at
top of first hill is a distinctive ledge
by it I found a *Physalis*.

On the North side of it masses, in them
Bayanus racemosa with young found the
soil around the top was made from
the ledge.

P.M. we all drove to Newark, up by
Mr. Davis house & East River to Newark
Road & through the Red road around
end of the Road to Newark Street. The
side chance to West Brook is as
fine a country side as I know
in New England & pleased me much.
Parthenocarpus salicifolia near West Brook
House at several.

July 27
Wednesday.

afternoon working on plants & drying them.
P.M. walked down road to Bishop
place & up the Brook there. very
warm afternoon. But I found more
of *Aspid. glandulosum triangularis*; a Bear
seen last evening by the man who
keeps little house by the Boat landing.

July 28
Monday

Rice & I later took after him. He showed us a group of *Ulmus laevis* by growth in Super Orchard. Lower Mt. Ball & near by I found a *Conocarpus* which appears like *Conocarpus*. On the forest *Hesperis matronalis* & I was glad to get the specimen, poor as it was, as I had begun to doubt my previous finding of it. Came from Mt. at 4.30 very warm day.

July 29
Friday

at home all day packing & putting up
plants. Am carrying home 333 sheets
of flowering plants & ferns from Wisc.
has very warm 84° in her room

July 3.

To Boston shopping I leave it to you

Aug 15

The Kappa went to Marion 1.10 to 10.42.
 walked up on the RR to Northwood
 house getting there at one o'clock. Found
Adiantum, *Hephaestites pleurichla*,
 on the RR but somewhat past its prime.
 Walked down the front road to the river
 and at the rocks on the river found
 large corals with *Crangon*, *Mytilus*,
 & I picked a good deal. Saw fern
Onoclea & *Hypolepis*. Camp
fulviculata plenty & *Microseris*.
 Uncle Abby took us to Marion depot
 by the 5.10 train, Boston at 7 o'clock
 instead of 8.10 when due.

1879

Aug 28
Sunday

Collins of Providence & Mrs. Britton
of New York spent time & saw me
walked part way up Ash Hill
at Buchanan place. Mrs. B. found
Rhynchospora cernuosa, handing
me the specimen. I do not find
it as any New England plant.

Wilmington, N.H.

Arrived
Wilmington at 6 P.M. expected
Dr. Farrow but he did not come.
Day very hot & uncomfortable.
The evening also hot abt 80°.

4th Sept
Sunday.

Then abt 78° or 80° all day, but
air not so moist as at Boston.
We walked slowly down to
Lake & along road to Echo Rock
where Mr. Lorey has just finished
a good seat on the Rock.
A short distance beyond met the
Lorey family & Mrs. Bruce & Miss
Kellogg who had gone to Westboro by
the steamboat & walked back.
I did not get much; a small
Agrostis in flower. Then a
violent thunder shower at 5 P.M.
& air cooler down to 66° in evening.

Hellaughby

5 Sept
Monday.

With Mr Skinner in boat to Fern cave,
& inside cleft & also to what
Mr S. calls Raindrop Falls about
a mile this side Sheffield Landing.
This latter was a mountain brook
over big rocks & I got several
mosses *Hypnum ochroleucum* &
Leucophaea & *Leucophaea* &
Mnium subglobosum & others.
I think Mr Tauxem had never been
to this Brook & it is worth a long
visit. Tried to find *Asplenium*
inside on the ledge & slide where
it was found but without
success. At Fern cave a slide
had brought a lot of arborescent
moss down where used to grow
Microscleria macrophylla. We got
home to a late dinner & then I
put away many wet mosses.

6th Sept
Tuesday

Ame with Annie Loreng, her father, Mr
Mr Birch & Miss Kellogg in train to
Kanis place for *Auricularia polypora*.
Mr Loreng took several photos. Then
through to Newark Road & on "earth
cliff" spp where we come out got
Asplenium Trichomanes, then northward
& down steep hills to our Long Pond
Road & out at Maple Grove home
got *Monarda didyma* & *Asplenium*.

1898

6 Sept

Am picked my plants - then planted some *Astragalus* seeds in upper end of little pond near *Pyrola rotundifolia* place & by path in bog. Then on rocky ridge for violets - *Solidago* - searching in vain for *Gaultheria procumbens*. On wet path got *Aster corymbosus*, no flowers, but at spot where A. L. got it in flower a few years ago.

7th Sept
Wednesday

Very warm in AM: I got some few things in garden & behind the cottage. PM. a violent shower which cooled the air & other. in the evening was 59° -

8th Sept
Thursday

To Bog & then out on road by the Snoggle. Got *Eleocharis intermedia* & five *Fissidens taxifolius* & *Mnium punctatum* in young fruit. On roadside *Aster prenanthoides* a novelty for this region: found it on East side of road at little bank just North of Snoggle & saw no other specimen. PM at work on my plants. Evening talking with Mr F. C. Churchill of Lebanon N.H.

9th Sept
Friday

AM at home till 11, then walked in the woods between house & lake. PM went down to Mearns Bog & filled my

Box with *Aster pulcherrimus*, also
Cladium monicoides & *Elocharis alba*.
 At 6.30 Sinclair came on his
 wheel having brought it by train
 to W.R. Junction to West Burke.

10th Sept
 Saturday.

Cloudy foggy till 10 o'clock, then
 Sinclair & I walked up the road to
 a half mile beyond Roary Brook
 home at 12. Talking with J. & Ha
 & Rm & at 3.30 Sinclair started
 for home. I walking with him to
 Sutton School House, then up to
 Phyalis Rock for *Bryum Outarensse*.
 Sinclair took the 5.12 train at W.
 Burke, arr. Junction at 8.40.

Parkie driving fr. Westmore here saw
 this morning a Doe swimming in the
 lake: it swam back to the Nat.
 Hor side on noticing the carriage.

11th Sept
 Sunday

At home all the morning arranging
 plants. Rm walked along the
 Cold Brook path & in pool by lake
 or on logs in the old pool, found
Chamaecrista americana in good
 fruit. Evening sent Prof Sargent
 fruit of both kinds of *Pyrus* &
 wrote him & Farlow: found a large
 worm feeding on the *Pyrus* that sim-
 ulated well a long black pedicel.
 Neither took it so much.

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Monday
12 Sept

Am with Mr & Miss Skinner to Marsh Pond Bog & home by Ha Ha Spring & the road. woods above the road. PM to the old Bog by the head of lake where Mr Cheney has cut down most of the trees, & will evidently destroy the station for *Equisetum palustre* rather good things. Got a violet with 4 cleistogamous fls. on one of the runners. Evening at 6.30 Edith & Harry came down fr. Libanon in buggy with pair.

13th Sept
Tuesday.

Very beautiful day. at 9.30 up the mt. with Edith & Harry. Pulaski Rock at 10. Top at 10.55. No outlook at 11.15: then down path blazed last month to Roaring Brook or just North of it: got there at 12.10 last 500 feet poor & rough. Got a few tree mosses, reached home at 12.45 by the road. PM Harry went up the Lake in Steamboat, I found plants.

14th Sept
Wednesday.

Harry & Edith left for home at 7.30. Morning I went in pasture opp. the house & got mosses & sphagnum. PM. to Cold Brook up the hill to its source. Got fine *Myium Outanense* 7 fls, & saw a very large cedar stump, wh. I shall measure.

Thursday
15 Sept

Ame with Ra along lake side to Polo Rock Church at 12.30. Pm to Bog Lake Hotel & followed down the wire fence to Mear Pond where Mr Skinner was sketching & got mosses on the edge of rocks: very distinct current all over Mear Pond.

16th Sept
Friday

Ame with Mr Skinner this time woods to Sutton Road, then the little Pond at head of Humphreys Brook & followed the Brook to Road. *Xyaneus unciniforme* & a *Tortricalis* in the Brook at pasture crossing. Home at 12.30. All the Pm at work on my plants. Came home from Sutton Road over the pasture ridges, took Sugar Road back up opp. Mr Lells house where I went last time.

17 Sept
Saturday

Ame Nattie & I with the Skinner drove to Sutton Cemetery & woods opp. on Gilman's farm where Rice knew the *Dirca palustris* grew. We found it in a beautiful Sugar Grove. Also on Roadside flowering *Chrysanthemum Balsamita* var *tanacetoides* which I had never seen. Also 3 specimens of *Aster prenanthoides*. We came home at 12.30 & Pm I was at work on my plants & at 4.30 planted

1898

a root of *Aster prenanthoides* at edge of little wood on mowing land opp the snuggle close by a big rock & within the edge of the wood.

18 Sept
Sunday

Very heavy rain all am. PM cleared up for a few hours with bright sunshine but did no Botany. Aurora last night.

19 Sept
Monday

Am to the 1st Slide & got several things. *Saxifraga aizoides* in flower & *Paruassia* & *Lobelia Kalmii* & *Potentilla fruticosa*. Got two *Gymnostomum* in good fruit & a *Dicranum* without fruit but near *fragilifolium*. Also

Sparganium angustifolium
Sparganium angustifolium

two grasses that I can't name, an *Agrostis* with inflated sheaths & flowers (some of them) barely protruding beyond the sheath & what appears to be a small *Elymus*.

Back at 72.45 & PM at work on my plants.

20 Sept
Tuesday

Heavy NW wind all day. Ther 46° at 8 AM & 44° at 8 PM. Walked in morning along Lake Road & a little way up 4th July Slide, found *Elymus Canadensis* in plenty. PM with Mr & Mrs Skinner to a point 100 paces beyond Echo

Rock then straight up the hill to the Garden at foot of Cliff: rather difficult but not as bad as I expected, very steep just below garden: we walked along whole length passing the masses of pure white granite? rock that fell last Spring. The old path by the base of the Cliff not discernible. Everything very dry & plants & mosses both scarce. The place could hardly be called a garden. *Artemisia Canadensis* & *Solidago* I think neglected all I brought down: saw also *Sax. oppositifolia*, *Polygonella fruticosa* this in flower, but no ferns or fruiting mosses. We came down by same route, arriving at road 50 feet south of where we went up. It took us 50 minutes to climb from Road to base of Cliff. We staid up there one hour & home at 5.30.

21 Sept
Wednesday

Very cold morning with ice on the water-pail. Walked with Mr. Miss Skinner to the 4th July Slide & up the slide direct, coming down thro' the woods to road at point 100 paces South of Slide. Got *Cornus circumata* in fruit & my unnamed

Agrostis: got very few mosses & tho.
I found my chunk in the Rocks
where the Rubbers were did not
find any Seligeria there. Sax. aizoi-
des in blossom, also Solielia Kalmii.
PM Mr S & I walked through
Cold Brook path on the hill
beyond measured the big Arbor
vitae stump cut many years
ago. It was 10 ft 2 in in circum-
ference 3 inches below the top:
& 38 x 32 inches across. Had
been cut abt 3 1/2 ft. fr. the ground.
Went up the hill towards Mt Kos
found some large Boulders,
Lime crusted with various mosses.

22 Sept
Thursday

AM we drove with the Skimmers to
the outlet of the Lake, stopping along
the shore at Westmore & the Beach.
Fine morning but did not get
anything special. PM in the
woods & pasture back of the house,
plenty of Viola Selkirkii & Fragaria
in blossom.

23 Sept
Friday.

Rain all day. Did not go out. The
Helianthus growing so plentifully abt
the cottage by wall of kitchen garden
is tuberosus & not annuus. It has
now H. buds on it, but they say

24 Sept
Saturday

it never flowers up here, while the
H. annuus is said never to sprout up
spontaneously.

Heavy rain early in morning but at 9:30
Mr. S. & I walked to Roaring Brook
& abt a mile beyond: the Falls were
very fine from the great rain.
Got *Elymus Canadensis* & *Rosa* by
the Roadside at 4th July Slide.

PM went to Cold Brook & found
it not much, in fact no bigger,
than before the rain, but the
empty dry gulch S. of it below
the ridge had a very heavy
brook flowing down, where yesterday
was no water, & it was this
we heard roaring while on the
Lake Shore road & not Clear Brook.
Saw a very beautiful Poplar Tree.

25 Sept
Sunday

Dull cold lowering day. Walked in
AM to Green Tunnel on Bishop's
Brook with Mr. Thos. Skinner &
was greatly taken with the picturesque
beauty of the place; found *Diphyscium*
foliosum in the Tunnel & lots of lots
of Mosses which I must come
again for. *Viola tricolor var. arvensis*
& *Chamaejasme coccinea* from the old
apple orchard here. At home in PM.

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26 Sept Monday Am down to Big Boulder & up in the wood on hill & got young firs & spruces to take home. Did not find a good Poplar. P.M. KWK Mr & Mrs Skinner & I to the Green Tunnel. Rice driving out to the 3 Maple Trees: found *Persea* run wild & also *Sorag*. It was a very beautiful afternoon & the Sun looked more lovely than yesterday: KWK & Mrs Skinner were much pleased.

27 Sept Left Hill 7 am in a slow. 8.10 train at West Burke: Edith & Harry met us at W.R. Junction & we drove to Fannier. P.M. I explored her pasture; *Guaphalium decurrens*, *Acalypha*, *Sirca*, *Hammamelis* in flower.

28 Sept. Plenty of *Helianthus tuberosus* at Fannier & in bloom along roadside. To Edith's at 9: & home by the 3 o'clock train with a few *Ledum* mosses.

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Oct 26

Bellaughy Pt.

Arr at Bellaughy Pt. (N.W. 1/4 Sec 28)
at 3:40 mild pleasant afternoon
and evening. Ther 50° at Bellaughy.
We had dinner in the cottage. Hotel
dismantled but not locked up -
water not turned off. Evening
promenade on the beach.

Oct 27

Ther 45°. Am. walked through the
woods to the Sutton road, starting
in opp. Lally's house & coming to
Humphrey's Brook & down the
highway. Am. with the wood
house, the back that fell by the
cliff into the highway some time
ago. It is all broke up now &
made into a wall on the left side.
Its path not so evident in the
woods as I supposed. I was struck
with the distance into the woods
up the cliff one can see west
where the leaves are of all the trees.
A violent snow squall after dinner
before we walked to the beach and
Ther 33° at 4 PM. but have had
a very comfortable night.

Oct 28

Ther 5 AM 29° 12 PM 40° 6 PM 34°
fine sunny day. went out to
the beach & cottage - no

wondered how far an hour's ride. I
then went down the trail to the bridge
and up to the top of the hill. The
young. At noon ice was falling
on the steep slope at the side
where the road is. I went to the
top of the hill and saw as to how
far by looking over the highway. Saw but nothing
well but not in its white robes
the snow has melted on it the
past few days. Found Fragrant
Fungus on alder bush on side
back of Little Pond this noon,
with odor of *Penicillium* & I have
often noticed the odor in the fall.
Every week to the Museum.

29 Oct.

Up early to take the 8.10 train at
West Point. Every bush &
twig & blade of grass was laden
with ice for the first two miles
of the road. The effect in the
morning ground was very fine.
To be home at noon, & home by
the 3 o'clock and Boston 7.10

1898

Dec 25.

Along the road between Big Blue River & Little Blue on the reservation side got a *Dicranella* growing on or at roots of a bunch of chishums, which does not appear to be *heteromalla*. Shall go there later for old fruit.

26 Dec.

Went again to locate carefully the above & on the side of the hill brought home a bunch of glaucous blue *Thelia asprella*, and found in it also fruiting *Hyphnum* ~~for~~ *reptile* and *Thuidium minutulum*, the two fruits looking not unlike. also *Polytrichum Ohioense* R & C with old & very young fruit. The above moss is *Dico. heteromalla*.

1899

Jan 22

with Pringle
Mullikin

Walked with Mullikin & I along the Reservation road back of Esqui to the Crossman Pines back: got mosses & some *Asplenium adnigrum* var *Schweiniigii* with well defined lobes at base of pinna & also *Dendrocladum obscurum*.

Jan 23

To Lebanon 5 P.M.

" 24

Drove to Alden Hall from Hotel: on walk off house, *Eutrochium alatum* & *Gymnomia apocarpa* in firm fruit.

1897

also taken *polycephala* & *larva*
ovoides

Jan 25. Brought *Smilax* from Lebanon & B.

Feb 27. The snow had somewhat gone and
 in the little pool in B. H. Reservation
 near entrance on Canton Ave I got
 some *Hyphum Boeckii*, same place
 where I found it last 25 May. Also
 on the wall close by abundant
Hyphum suppressiformis & *Boeckii*

Florida March. 1899.

- 6th March Voted at town meeting Am. Left Boston one o'clock with Mark & MK & arr. N.Y. at 6 P.M. at Manhattan Hotel.
- 7th March Tuesday Mild snow storm when we awoke. Left for Washington by the 7.50. Met on the train Mrs Peckham wife of Jessie Peckham of Washington. Arr 3.40. Leland met us & to Normandie Hotel.
- 8th March Wednesday Very cold in Washington. 22° at 10 AM. good sleeping in Penn Ave; snow much drifted in country abt. visited Library.
- 9th March Thursday Still cold. Left at 5.45 on the Florida Limited for St Augustine.
- 10th March At Columbia S.C. when I awoke. Savannah 9.25. St Augustine 2.45. Ponce de Leon Hotel.
- 11th March Saturday Carriage to Anastasia Island & Beach. got a few Mosquitoes, *Thelia Lescurii* & *Hyb. microcerum*. Many birds, Blue Herons & Pelicans. Walked in pm to the Golf Links. 5 PM on bicycles.
- 12th March Sunday Am drove to Ponce de Leon Spring & by Rough Riders camp. 5 PM on bicycles. Saw large white crane & Ash Hawks. P.M. walking abt town met Dr. H.D. Walker of Franklinville N.Y. who told me of his investigations the cause of Gapes in chickens, a parasite in the earth -

moor's intestine, when eaten by chickens propagates & causes the disease.

13th Mich
Monday.

Millie & I went to Ormond by train at 8.50 returning two hours late at 8.30. went to see what rooms we could get. could not find a trace of any *Bryum Sawyeri*. Very hot day. saw the Carolina Doves. Got a few mosses.

14th Mich
Tuesday.

With Mr Donahugh & his daughter & niece Miss Smith all of Phila. whom we met yesterday on train coming up to Ormond. S.K. McK & I went to the Golf grounds & played. I did course in 71. Sk in 64, others nowhere. PM. Tex. some mosses particularly *Fernaria*. Mr & Mrs Simes of Boston have been talked with their pen & evening.

15th Mich
Wednesday.

Telegraphed to Conrad that we should not come. Very warm day.

16th Mich
Thursday.

At home making David Karna with H. Am. Patton & I to drive about the town & golf links when the fancy golfers were playing. PM. Lincoln took Mother & Miss D & Miss Sant in sail boat & I to golf links with M.K. & Mr Donahugh. I did course in 61-

17th Mich
Friday.

At home with Ha & Am. In PM we drove out on the road to the St Johns River abt 5 or 6 miles, & in swamps

got several flowers, three *Myrsine*s, *Stien-*
laria & a few mosses. Jasmine also
coming back: met Jean drawn by 4 yoke
& small oxen on the swamp road.

18 March
Sat.

Aren to Golf Links & played Tournament
with the Donahugh family. I won
the prize. PM at home & worked
over a peculiar *Funaria* fr. Ormond.

19 March
Sunday

Am to Memorial Church & heard Mr
McGonigal. PM packing up & getting
ready for Oklawaha trip.

20 March
Monday

Left St Aug. 10.40. Palatka at 11.40. Went
to boat Metamora, capt Lansing. Left at 12.15.
26 miles on the wide St John: cut Oklawaha
4.30: saw an alligator on the St John before
crossing Oklawaha: every heard the weird
cry of the Limpkin or Limpkin a water bird.
met Mr Harrison a surveyor for the Mich.
Lumber Co at work on the stream & he agreed
to send me mosses. Left at 10. Moonlight evening
cool. Lower cabins of boat must be too hot
ordinarily, but there are dead skolevorns or
squirrel. Left early & the river was very fine
particularly after Silver Springs run was
started. Saw 15 or more alligators of all
sizes, one swam along by the edge of the
river in full sight. A very large one asleep.
Others clambered or rolled off the logs. Turkeys
in great numbers & 24-30 inches across.

a very fine yellow & white soil. White
 spiders silk, & big Thistles in Silver Spring Run
 meadows. Garfish 3 ft long & many smaller
 fish. Silver Spring deep meadows on
 the bottom, soil was disappointed as expected
 a floor of sand. Run has very quick
 current & we met & were bothered by
 several lumber rafts in the narrow stream.
 Saw no creaks. The Swamp itself is only
 1/2 - 1-3 miles wide & Mr. Harrison said
 it is the common belief there is more
 water than 50 years ago, but he had
 lived here 10 years & had noticed no change
 in level's. It all comes in Silver Spring &
 another branch which goes 4 or 5 miles
 north. The Boat trip is 143 miles.
 Got off boat at a road landing in the morning &
 got on in two crosses. R.R. station at
 Silver Spring on edge of the flowing river
 are 11.40 back train at 12.20 & are.
 Jacksonville 4.45. J. H. Hines, H. H. &
 S. H. Hines & Phillips & Hines on opposite side
 & now with the Soundings.

22 Feb
 Tuesday
 Wednesday

Got on train for us at 7.30 & we went
 in Electric launch 30 minutes to the
 other side & lunch at Mrs. Hines
 with the Soundings. Found one
 two crosses, Physocarpus, Bark
 at 3.30.

The writer commenced taking notes on what species of birds were in song at Raleigh, N. C., during the last week of June, 1908, and this paper gives the results obtained up to the end of April, 1909.

On the Number of Species of Birds that can be Observed in One Day at Raleigh, N. C.: C. S. BRIMLEY.

This paper enumerates the total number of species observed in each month at Raleigh, N. C., from November, 1908, to April, 1909, inclusive, and also gives the greatest number observed in any one day in each of the months, with a full list of the species observed on the best days in November, January, March and April.

Geology and the Lumber Market: COLLIER COBB, University of North Carolina, Chapel Hill, N. C.
Studies in Soil Bacteriology, III.: Concerning Methods for Determination of Nitrifying and Ammonifying Powers: F. L. STEVENS and W. A. WITHERS, assisted by J. C. TEMPLE, W. A. SYME, J. K. PLUMMER and P. L. GAINES, North Carolina Experiment Station, Raleigh, N. C.

Observations on Bird Life of Great Lake, Craven County, North Carolina: H. H. BRIMLEY, Curator State Museum, Raleigh, N. C. (Read by title.)

Senses of Insects: FRANKLIN SHERMAN, JR., Entomologist, Department of Agriculture, Raleigh, N. C.

This paper merely reviews the well-understood facts in regard to the senses of insects, the organs of special sense, their location, etc. No claim is made for originality in the matter presented.

The antennae are declared to be the most important organs of special sense, as they serve as organs of both touch and smell, and apparently in some cases (mosquitoes of the genus *Culex*) as organs of hearing also.

Methods of Reproduction among Insects: Z. P. METCALF, Department of Agriculture, Raleigh, N. C.

Some Unrecognized Factors Affecting the Potential Difference Developed in an Induction Coil: C. W. EDWARDS, Trinity College, Durham, N. C. (Read by title.)

Oral Gestation among Teleostean Fishes: E. W. GUDGE, State Normal College, Greensboro, N. C.

Oral gestation is not uncommonly practised by silurid and eichlid fishes. Many marine, estuarine and fresh-water catfishes of Central and South America, India and Australia carry their eggs and young in their mouths. With one possible

exception, it is always the male who thus incubates the eggs.

Among the cichlids of South America, Africa and Syria this habit is very prevalent. In these fishes it is generally the females who thus care for their progeny.

Scattered cases of this habit among other teleosts are occasionally met with, especially among species belonging to the genera *Apogon* and *Oreoladipaterus*. It seems probable that further research among these latter forms will extend our knowledge of this curious habit which is invariably associated with unusually large size of the eggs.

The writer has been engaged for fifteen months in working up the literature of this extraordinary habit in fishes. This work is being done for the Bureau of Fisheries, and will be issued in its publications.

The Linear Classification of the Cubic Surface: ARCHIBALD HENDERSON, University of North Carolina, Chapel Hill, N. C.

The speaker considered the twenty-one different types of the cubic surface (neglecting the two scrolls) reduced to canonical form with reference to the straight lines lying wholly upon the surface. By proper choice of constants, he succeeded in representing, in each case, the lines in position with reference to the fundamental tetrahedron. He exhibited diagrams, in color, of the lines, with proper reference to each other and to the fundamental tetrahedron, for all twenty-one types of the cubic surface.

The Terminal Bud of the Sweet Gum, Liquidambar styraciflua: E. W. GUDGE, State Normal College, Greensboro, N. C.

This tree has on the ends of its lateral branches terminal buds of two kinds. One is of ordinary size and contains only leaves and an embryonic branch. The other kind is very large and swollen. Dissection or subsequent development on the tree shows that this contains a cone made up of the familiar sweet gum balls—it is seemingly a terminal bud devoted solely to the production of flowers. Later, the lowest ball (sometimes the two lowermost) develops an extraordinarily long pedicel, and the stem bearing the cone breaks off just above the point of attachment of this pedicel leaving but one ball of the six or eight to come to maturity. About this time a very small leaf bud makes its appearance just below the base of the cone and this lateral bud later becomes the terminal bud which by its growth elongates the branch.

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1909
Social Science: The Work of the Woman's Association for the Betterment of Schools: Mrs. CHARLES D. McIVER, Field Secretary Woman's Betterment Association of North Carolina, Greensboro, N. C.

Notes on the Petrography of the Granites of Chapel Hill, N. C.: H. N. EATON, University of North Carolina, Chapel Hill, N. C.

Some Results of Municipal Milk Inspection in Raleigh, N. C.: F. L. STEVENS, North Carolina Experiment Station, Raleigh, N. C.

Aug 6, 1909.
E. W. GUDGER,
Secretary

THE TORREY BOTANICAL CLUB

The meeting of May 26, 1909, was held at the museum of the New York Botanical Garden and was called to order at 3:30 P.M. by President Rusby. Thirty-four persons were present. After the reading and approval of the minutes of the preceding meeting, the scientific program was presented, the first contribution being made by the president, Dr. H. H. Rusby, who spoke of "The Earliest Spring Flowers in the Vicinity of Charleston, South Carolina."

The speaker's remarks were based on observations made between March 16 and March 23, 1909, at Summerville, which is about twenty-two miles northwest of Charleston. By a careful comparison of the state of vegetation there in March with that of New York and vicinity in May, it was concluded that there was a difference of eight or nine weeks this year in the progress of the season, though it is probable that in an ordinary year the difference would be about seven or eight weeks.

Summerville is noted for the existence there of Dr. Shepard's tea-gardens, the only tea plantation conducted on a commercial scale in this country. There are now about 100 acres of plantation in productive operation there, from which 12,000 to 15,000 pounds of tea are sold annually. Success has been obtained through an extensive series of experiments with all the known varieties of the tea plant. No attempt is made to compete with the Orient in the cheaper grades of tea, but in the more highly prized grades the Summerville product is already taking a leading rank.

The plants collected at Summerville by Dr. Rusby were then discussed and exhibited in groups, arranged according to habitat and time of flowering.

Dr. Britton in discussing Dr. Rusby's paper referred to the popular belief among the fruit-growers of Delaware that the spring advances

northward at the rate of thirteen miles a day—a belief that would seem to be supported by Dr. Rusby's observation that there is a difference of seven or eight weeks in the progress of the season between Summerville, S. C., and New York.

The second paper on the scientific program was by Dr. J. A. Shafer on "Botanizing in Cuba." Dr. Shafer was in northern Cuba from January 22 to May 6 of the present year in the interests of the New York Botanical Garden. He gave a popular account of his collecting experiences there and of the general floral features of the regions visited. Headquarters were established at La Gloria, Nuevitas and Holguin, and shorter visits were made to Gibara, Caccum, Alto Cedro, Paso Estancia and Antilla.

One of the objects of the expedition was to ascertain whether the flora of northern Cuba had any relation to that of the adjoining Bahamas, which islands have been the subject of extensive floristic investigations by Dr. Britton and others; but on the northern mainland of Cuba one notes little relationship.

Cayo Guajaba, one of the chain of outlying northern islands, none of which seems to have been visited by botanists heretofore, probably on account of the difficulty of access, was examined at several points and was found to possess a very different flora from that of the mainland south of it, many of the species being Bahamian.

North of Nuevitas, the railroad to Camagüey passes through many miles of rather barren palm-covered savannas, through which an occasional stream passes, whose winding course can readily be made out by a fringe of green trees, overtopped by the graceful heads of the royal palm. From Camagüey to Holguin, a distance of about one hundred and fifty miles, one passes alternately through stretches of dry savannas, rich dense woods and fertile pastures.

Paso Estancia, towards Santiago, on the Cauto River, was made the last place from which extensive explorations were carried on. The river, which is the largest in Cuba, here passes between high bluffs made up of stratified limestone and clay or sand. It has many turns, with gravelly bars and sandy or muddy banks, and many things can be found there. The surrounding country is a dense forest, with a great variety of species.

After a discussion of Dr. Shafer's paper by Dr. and Mrs. Britton, Dr. Rusby and others, adjournment followed.

MARSHALL A. HOWE,
Secretary pro tem.

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1897
23rd March
Tuesday

Left Y. at 8.20. Charleston one hour late at 5.30. Train to Summerville at 6.25 - & arrive at 7.15. 1 1/2 m. to Pine Forest Sum. Had to Dr. Hubbard Fox plantation & heard his lecture on cultivating & curing Tea at 11 o'clock: then had a cup in his house & he gave each of his 12 auditors a little Box say 'Tea'. This is the only place in U.S. where Tea is cultivated commercially. P.M. I walked about the town & got several mosses, a large Physcomitrium on edge of open stream.

25th March
Sat.

We drove 6 m. to old fort at Fort-Charleston on Ashley River. A ruin - coccinea like wall near a tower of a former brick church: the fort is on a bluff at angle of the Ashley said to be at head of navigation, the whole place was almost if not quite pre-revolutionary. Got several interesting mosses, on road trees in swamp & wall of Fort. Also Lycopodium alopecuroides, Chaparralia tomentosa with its bilobate corolla & Houstonia patens, of indigo blue. with Jasmine & Azaleas & violets. V. prunellifolia very large & excellent very small. P.M. at home & evening

1897

Sunday
26 March

S.K. M. C. came H. Jacksonville.

Very close muggy day with heavy
thunder showers at 7 am & occasional
drifts of rain all day. Ther 75°-78°
all day & a real Dog Day. Did not
go 100 yards fr. house, but got on
few crosses fr. the back of the trees.

Monday
27 March

Warmer day. Ther 75° marked with small
10 half grown & played on round. Got at
the place & patient Physocarpus Thunbergii.

Tuesday
28 March

Another warm day. Had to get the
place & a little way down road. Got
Physocarpus Thunbergii & brachyphyllus. The
road up the place west of the house made
the place. Got a new specimen of Eubanksia
don, apper. like a Physocarpus with thick.
Also Dracaena brevifolia. So the spent the
day in Charleston.

Wednesday
29 March

Ther 40° at 5 am, Ther 40° at 5 am
evening. Marked at the place & at the
place to leafy house with Kirtlin.

Thursday
30 March

Ther 37° at 5 am. Ther 40° at 9 am.
Marked at the place. Some fine
not feeling very well today. Left on
4.50 train for Charleston.

Friday
31 March

Charleston Hotel. All day. Some fine
in Charleston. S.K. left for Charleston.
Left by train for Charleston. 3.15 P.M. 4.15 P.M.
to New York to 4.15 P.M. to New York.

Milton 1899

April 11. Pm walked up Bluehill to Cuxbun
place + N.E. thro' the woods to Res. Road
by P. Holcott Round Tank + Windmill.
On stones in a little runway near the
Res. Road found *Thuidium*
in very good fruit. saw I think I
saw *Chickadee* + *Layton's* *phoebe* L

Monday
May 1.

Very hot day. Record in Boston 89.3
Drove in Concord wagon with M. I.
thro' Menemway Land by Fox Sparrow
road to Green Lodge + by Washburn
road road to Drabham road + to
Purgatory. through it to Everett
+ home by Drabham road, Elm St -
Green St. after the cold late
April everything seems bursting into
summer life. Got in full flower
Viola Muhlbergii, *pedata*, *blanca*,
lanceolata, *crenolata*, *segetata*.
also a *Salix* *maria* from sandy road-
road at Washburn Grove + Capen
umbellata type not var *vicina* of
same wood road. Fragaria
Potentilla Canadensis: at P. M.
I went on bicycle to Men. meadow
+ got small *segetata* with the
clavate hairs of *Chenilleux* the
petals: worth further study.

1899

Tuesday.
May 2

Cold N.E. day. Ther 58°. Drove to
Reservation to Hillside St & found
the Blue Hill home. Got several
sagittata violets & found they
all had acute densely pubescent
hairs on lateral petals, none
had clavate hairs. Two fine
specimens had no visible rootstock.
Pressed them solid, but I
find more shall section the plant.
Saxifraga trees in fine flower &
plenty also. The I worked
up the literature of the bearded hills
~~*Saxifraga*~~ first Darlington alone
treats of them as clavate. Reichenow
calls them glandular, while
Pursh, Nuttall & Torrey do not dis-
tinguish them & Torrey, under oblique
apex, *palmata* calls them "globosa
var.".

May 6
Sunday

Donald came to dinner & we walked
to top of Blue Hill. Got the
small *amurensis* in fine flower
& *Dracopis fulvum*.

May 11
Thursday

Drove with Kate to Purgatory:
Carex varia (diff fr. *albicans*)
C. Pennsylvanica, umbellata,
Erigeron bellidifolius, *Hypericis eruta*,
& on the road to it in sand by

marshy Grove *Prenes cuneata* Raf.
+ *Pennsylvanica* each in fine flower
each two feet high esp. in Herb.
Trilem. cernuum + *Uta pubescens* on
fox parrow path, somewhat sand,
so that this yellow violet is not
in blossom on May 1st as the
others got on that day were in
same place as this.

12 May
Friday

Drove in Sun to Hoosei Pond & to the
Blue Hill River & passed & then by
Hillside St. to the Reservation Road
& by it to Randolph Ave, Forest St
Harlan St home. Got *Antennaria*
+ *Carex varia* & large violets,
+ *Desmodium fulvum* in fruit.

14 May
Sunday

Drove with the family in two cars to
Purgatory. Got *Carex proserp.* on
dry hill opp. the little spring, also
fringing *Thuidium* in bog by spring.
and on the S.E. side of the Great Spring
saw a fresh cow dung which I
shall examine later for *Splachnum*.
Carex latifolia & violets and
Fragaria in the wettest mudhole.
Saxifraga Pennsylvanica + *Ribes*
oxycarpum - etc. and *Carex varia*
more advanced than last Sunday.

1899

15 May
Thursday

With ad Hodges Jr by train to Ellis station.
tracked up the Brook through grounds
of Park of Electric RR Co & to Mr
Cameron Forbes farm & back to
road again on North side of the
Park fence. Benjamin in young
fruit, Isoetes in a dry pond.

then across RR & towards Purgatory.
Into the meadow & then to woods
to eat lunch by brooklet under
the Bank where *Equisetum hiemale*
grows & along the edge of wood &
on to the Big Spring, then back
by wood roads & Everett St to station
at 4:39 & train to Badville.

Cornus Canadensis, *Trollius erythro-*
carpum, *Clintonia borealis*,
Uvularia sessilifolia, *Polygonatum*
biflorum, *Trollius coccineum*,
Maranthaceum Canadense, *Juncus Cana-*
densis in ^{wood} flower, *Carex penella*,
Coptis trifolia, *Aquilegia Canadensis*,
Aralia trifolia *microphylla*,
Cardamine rhomboidea, *Elochea*
terrestris, *Carex trisperma*, five seedlings
of *Symplocarpus foetidus*, *Carex laxiflora*
var *stratula*, *Ranunculus bulbosus*,
Equisetum hiemale & *sylvaticum*,
Barbarea vulgaris and a new

Sauraceae wh. I took for *Q. glauca*
but does not agree with any spec.
Quercus prinoides

16 May
Tuesday

PM drove with man thro Harbourn
Grove Road + then down the road
road opp it on Deodham Road: it led
down to Purgatory Brook in the
meadow a distance of say $\frac{3}{4}$ mile.
Found *Calla palustris*, *Carex*
canadensis, *Stemopanthus* +
several good fruiting *Hypnum*
+ *Aulacomnium palustre*.

Many piles of meadow hay had
lain thro the winter + the
Symphlocarpus had grown up
through them, quite bleached
like celery, + the spathes had
been almost completely eaten
away by small animals. A
great place of *Carex* next month.

18 May
Thursday

PM. walked thro Wild Cat Noth to
Hillside St + by the path up to side of
Blue Hill to Top + down road home.
Did not find *Arabis Canadensis*: got
Ranunculus micranthus bett, near
top of hill, + fine *Saxifraga* flowers +
a white *Viola pedata* + *Friestium* in
bed near top, with *Carex* var. in many
forms and a curious *Polygonum* from near
the top of the hill.

19 May
Friday.

PM drove with Sinclair into the wood road
on Farm St leading towards Pokabog.
In the woods found fine *Gaultheria*,
Cypripedium pubescens in flower &
in the Cranberry meadow, which
I named the Moors found *Cassiope*
& *Rhodora* in fine flower. Under
the trees in the woods on little path
Buxbaumia in prime condition.
Home through Pecuniat St.

20 May
Sat.

Behind the house in Alder & Chestnut
Cot. *Carex paucica*, *gracillima*,
pallidescens, *shipata*, *polymorpha*,
stricta, *regida* var *gambeliana*
& a young *Lepidula* var *pedunculata*.
Ranunculus acris & *Rubus* *inflorus*.

24 May
Wednesday

Behind the Elkus Ho in three diff places
Carex conoidea PM to Pokabog
Pond with Kelly: *Anethusa bulbosa*,
Carex filiformis, *canescens* large &
small form, *utriculata*: *Viola*
lanceolata & *pubescens* the latter
under the pine trees of the grove at
Wentworths. *Eriophorum gracile*.
saw up two wild geese on the pond
which circled round & came back to
West end of the pond. Sinclair came up
with his canoe when we had been
here abt half an hour.

1899

26 May
Friday.

Mr Hodge, came fr Cambridge 7.15 train
at 9 we drove to Purgatory taking
Kelly to look after horse & wagon.
Carex umbellata again on the
Washburni Grove road, then across
Deobane Road & by wood road to
meadows. Men were burning the
grass across the Brook. on road
down got *Rhododendron nudiflorum*
in flower with leaves well developed.
Potentilla Canadensis on wet
side of road very silvery hairy.
Viola prunellae-folia on side of
Purgatory Brook, & in meadow
alopecurus geniculatus, *Carex*
stenilis fusca, (this new to me)
& *bullata* & *Eriochloa tenuis*
young and very glaucous.
Other meadow Carices will soon
make this a rich field. Then
we went back to the horse at road
& drove to the entrance of Purgatory
(at old place) & left Kelly & horse
while we went to Picnic Brook
hunched then walked the soggy path
to the meadow again over a very
strong bridge at the Brook.
Iris versicolor, *Carex debilis* var
Rudgii, *Carpinus caroliniana*.

Rhododendron nudiflorum in flower
 with no leaves, Geum rivale, Cardamine
 rhomboides, Senecio aureus, Eulalia
 biflora, Medeola virginiana, Viola
 in a large 4 x 3 ft bed under the
 trees near & opp the Hemlock grove
 (that is East of path going to brook)
 seems to be Selkirkii: on the
 dry meadow other side of brook
 Carex conoidea 5 or 6 inches high,
 young Rhynchospora fusca & at
 brook Ranunculus aquat. var. tricho-
 phyllus and good abortives &
 Pyrus arbutifolia and Viburnum
 Lurago in bud, almost in flower.
 In the Hemlock wood on the path
 Lycopodium lucidulum, & Phegopteris
 Dryopteris & Trillium erythrocarpum
 scerum both plentiful, Truncata
 + Utricularia sessilifolia + Medeola,
 when we came back to Kelly we
 turned into the big Hemlock woods
 for a few moments! Cyp. ^{pubescens} ~~pubescens~~ &
 Aetna alba & Aquilegia Canadensis
 under the big trees. The Botanists
 were very plenty on the meadow.
 The day was very fine cool wind
 + warm sun.

1899

127

28 May
Sunday.

Ablt the place & to meadow behind
Elkus ho. got young fruit of *Polygala*
paucifolia.

29 May
Monday.

Drove with A.D.H. to Peewee &
Stoughton Turnpike & road road to
Indian Lane & house past Mrs.
Pam Tucker house.

30 May.

Drove with A.D.H. to Washburn's
Grove via Green Lodge & up to & thro
the Grove by farm road to Forbes Farm
on Deane Road: then by various
Purgatory Roads, to Pond & again to
Pond then along Everett St & turned
in opp Downey St & to pasture towards
the Ellis station & thro regular Purgatory
to Lake stopping at Little Spring &
going also down Mrs Faxon's old
Purgatory path fr. Herlock Grove:
then to gate back again by hill path
to 2nd Pond & along path to old road
fenced off, leading to Everett St &
back again to Lake & out by
High Forbes new house.

Ranunculus recurvatus on Green Lodge
road, *Oxalis stricta*, *Potentilla*
Canadensis a large erect form
Carex lasiocarpa, *Carex flacca*, *gracillima*
nutans, *Geranium* *triflorum*.
Viola Muehlenbergii

125
1899

31 May

Ther 83° at noon. In pm walked to top of Blue Hill by path to Hillside St + along that street to Houghton + then by path to Reser. road + Canton Ave. *Carex acutata* under big white oak opp Claytons House. *Deschampsia flexuosa*, *Sium racemosum*, *Aphyllon uniflorum*, *Carex costellata* Britt *Ranunculus micranthus* in fruit on S. slope of the hill also *R. Alleghaniensis*, *Asclepias quadrifolia*, *Eatonia Dudleyi*, *Stipa avenacea*, *Carex rosea* var *retroflexa*, *Cephalophora*, *Rosa digitalis*, *Laxiflora* var *puberula*, *Panicum depauperatum* + two others wh. I missed, *Houstonia missouriensis* var *longifolia*, *Cornus alternifolia*, *Rubus occidentalis*, *Helianthus Canadense*, *Sarcocolla Marylandica* (red) and very young *Danthonia spicata*.

June 2

Went with Kelly in AM in the Park, mostly in section H on my map, South of Buck Hill, following road roads. *Syrinchium Atlanticum* in wet place + " *angustifolium* in dry place. *Viburnum acerifolium*, *Smilax herbacea*, *Gaylussacia frondosa* + *resinosa*, *Corydalis glauca*, *Aralia nudicaulis*, *Comandra umbellata*, *Neracium venosum* + *Quercus Prunus* Crap.

June 3
Sat.

moor-

met a mother partridge with ten little ones, & heard another hen partridge calling her little ones but did not see her. Ants burying a milk adul-

with Kelly in team to Purgatory, via Green Lodge, Washburn, grove road to Forbes farm, *Kalmia angustifolia* Everett St to RR & stopped at the meadow to look for *Pastellia*, did not find it, but did find *Uashington* *officinale* in flower. *Carex* mobile very fine & a hybrid? *mobile* x *lurida*, with a very *hystrix* but quite smooth, *Carex intenos* & *utriculata*, back along Everett St and at pond hole beside footpath *Ranunculus multifidus* & *Veronica scutellata*: back to Eatons & put up the horse & walked in by the two ponds & to roadway at Little Spring & along the moor at edge of swamp to Great Spring. *Cornus Canadensis*, *Carex intumescens*? Lunched at Big Spring, took a *Fountainalis* which looked very large in the clear water. Sprinkled water on my cow dung which looks as if it would not produce any *Splachnum*. Down the

139
Brookside Place & by path to the
Big meadow. Searching my so-called
Selkirkii patch of 25 May, found
two flowers, which prove it to be
Viola blanda var. *palustriformis*
new to me. On the meadow
Carex flava var. *graminis*, *Monarda*
with regular six sided spikes, *Viola*
florida *striata* var. *angustata*.
The brook has ~~these~~ beds of the white
buttercup & *Eleocharis acicularis* &
Ludwigia in the mud & shore.
Arenaria latiflora & *Cardamine*
Pennsylvanica in the meadow, and
Sagittaria arifolia. Followed
the new wire fence back to road
Carex digitalis & *laxiflora* var. *strigata*.
& *Botrychium Virginicum* & *Pyrola*
chlorantha in bed. Having got the
horse turned into wood road at left
top of the hill & came out on Washburn
Grove road foot of the color oak hill,
not without difficulties, cutting some
with axe. In there found what
appears may be *Carex hirta* & brought
home bunch of *Lupinus perennis*.

1899

June 5
Monday.

Hot day with S.W. wind. Went down the hill through our lawn to Mr. Holcott's to the meadow behind cellar lot. Ther 92° when I left house at 2 P.M. and 87° on my return at 4.20.

Spotted *Verbascum dentatum*, *Salix rotundifolia*, *Potentilla palustris*, *Rosa lucida*, *Carex strobilis*, *Cephalanthus*, *Scutellaria autumnalis*, *Utricularia vulgaris*, *Glyceria nervata*, *Carex filiformis*, *Salix myrsinoides*, *Carex stricta*, *filiformis fusca*, *Glyceria fluitans*, *Poa serotina* & *Equisetum limosum*.

June 7
Monday

After several hot days, came an east wind this morning & the. at 5 A.M. dropped from 80 to 56° & has remained below 60° all day. P.M. walked up Blue Hill & part way down South side. Thunder rolling sent me towards the top & I walked down in a gentle refreshing rain, the crops sounding loud among the trees. *Verbascum acrifolium* every where in bloom. *Sierrella bifida*, *Melampyrum canadense*, *Carex verescens* and on top of the wet among rocks N or N.E. of observation fine *Cornus circinnata* in fl.

also *Deschampsia flexuosa* the little
red Mountain yarrow - *Danthonia*
spicata, Down the path
Stipa avenacea quite common -
many beautiful *Asclepias quadrifolia*
+ *Senecio* *diversus* var *Balsamifolius* among the rocks: an *Elx*
with *Apl*s long pedicelled + blunt leaves,
+ *Legustrum vulgare* quite wild
Panicum latifolium in fine shape
+ *Thalictrum* I supp. *purpurascens*
Scorpus planifolius + *Corydalis retroflexa*
+ *Trochium* with its flowers fallen.
+ a Smooth Poa, probably *compressa*
but with 3 nerved glumes? *Koeleria*,
but no doubt *compressa* acc to Hooker.

June 8.

Day hot again. 90° in P.M. In our
land in fine *Viburnum dentatum* in
full flower and examined the hairy
leafy ripe buds of *Polygala pauciflora*

June 9
Friday

Ther 75°. P.M. down by our little Spring
+ Eekus land to lower part of Brook
in wet pasture curious *crinita* +
stipata, looking as if hybrids.
also *virescens*, *interior*, *rigida* var
strictifolius and var *Goodenovic*,
+ *C. stricta* var *decora*, + very large
ovellata, *lunda*, *pallens*,
peruviana, *monile*, *Rumex crispus*

Brunella vulgaris, *Trifolium* ^{*pratense*} ~~*repens*~~
Solanum dulcamara, *Holcus lanatus*

June 11
 Sunday.

Wilmington: Hal & I left Boston 9 am with W.P. Reek & F. Williams. Mr. Morse joined us at West Medford & we went to Silver Lake a flag station & Thimblet. Bag close to station & Silver Lake kept a mile away: then walked down the ice house track to main track & across RR + met place there & through wood road to highway, then turned to left & at School house took right hand road & about a mile to Paulsboro & asarum place on left of road & ate our lunch under a very fine hemlock 70 ft high and 13 ft circumference on the right of road, then across by a wood road the angle of road we had come to Electric car Road & across by the cranberry Bog tide & through dense thickets to wood road we came on & along that to little bridge over wet place by RR perhaps old bed of Middlesex canal & again in the bog by station. Left at 4.45. Boston 5.32. 6.30 Hyde Park Electric at Forest Hills home 7.10. Fine *Arctostaphylos* in bog by station & *Rosa virida*

Pogonia sphroglossoides, *Carex filifolia*,
Iris prismatica, Cranberry, *Carex*
flava var *graminis* & *viridis* & *bellata*
tuberculata & *folliculata*; a
 very hairy wide leaved *Sanicula*
Nymphaea *lutea* *Carex* *atlantica* &
interior & *sterilis* & *canescens* &
 var *polystachya* *Potamogeton* *nor-*
vegicus & *simplex*, *Carex* *canadensis*,
Sagittaria *altissima*, *Echinocystis*
lobata with cotyledons, *Trifolium repens*
Panicum conjugatum and the
 other four *Panicum*. *Oryzopsis* *Can-*
adensis in the woods, *Carex* *vestita*
 in many odd forms, *Muhlenbergia*,
Psittacula or young fruit of *Xanthoxylum*
Asarum canadense, *Festuca elatior*
Carex *fusca*, *Lepidium* *iberale*,
Calamagrostis *canadensis*
 & *theropoda* *pumila* & *Panicum*
scoparium.

15 June
 Thursday.

With William drove in Blue Hill River.
 Explored the Cow Hollow Br. Glen &
 then by the roadway marked via
 Breakneck ledge to the back of Sem.
 land almost down to Crossman's Pond
 & home by the roadway near the Ross
 fence. *Actaea alba* young fruit.
Lysimachia quadrifolia: *Scirpus*

1899

but it was *C. N. as Angliae Schrein*
from Coon Hollow

blanifolius, + a *Carex* prob. *varia* &
Juncus tenuis, *Carex straminea*.
Brachyelytrum. *Mitchella repens*.
Asclepias quadrifolia *Carex digitalis*.
Vibis labrusca. *Arenouella* frond.
Galium lanceolatum. *Carex cephaloidea* with peculiar large rootstock.
Lax. culmii. *Rosa vac. retroflexa*.
Rosa rubiginosa very fine on
Red Cedar tree in back part of
Mrs. Kemmings' land.

19 June
Monday

Am with Kelly in team thro Mr. Kemmings' land, Fox & Sparrow path to Green Lodge Road Washburns grove to Desham Road + right across it to the Long Path to the meadow, came back at 4 on account of threatening thunder. The *Symphlytrum* was in blossom in Fox & Sparrow path + among the high pines near Green Lodge I picked 20 fine *Habenaria fimbriata* for house not botanical specimens. On Washburns' land *Asclepias obtusifolia*, never saw it except at Wareham. *Carex foenea*, *Panicum latifolium*, *Pyrola chlorantha* in fine flower. Just at entrance to Long Path to Purgatory meadow by Hemlock trees on the left *Woodwardia virginica*.

1899.

Alopecurus geniculatus in the meadow, *Glyceria Canadensis* - plants, the latter almost ripe, *Carex vulpina*, *Juncus infidus*, a very lax *Glyceria elongata*, *Carex fusca*, *interior* *capillacea*. At Green Lodge on way home a *Gorse* *Sambuca Marylandica* & *Cornus sericea* & by the Clayton house *Rumex obtusifolius*.

21 June
Wednesday

Drove with Kelly fr 8-1. Green Lodge Road Washburn Grove Road & explored two of the roads leading thence to river meadow named one via Favorita, a grassy road through woods to a picnic place near meadow. Then to Purgatory at Hemlock Grove & got many specimens of *Carex physocarpa* & some *deflexa*. Went to Great Spring to look at the Cow Dung & then home.

Cerastium viscosum? on via Favorita on meadow near there *Agropyrum caninum*? *Carex stricta* *dicora* *agrostis scabra* & *Rosa vilida*. At Purgatory *Galium triflorum* *Carex digitalis* *Actaea spicata rubra* *Mitchella* for its large flowers & *Drosera rotundifolia* " " " leaves Old *Oryopsis aspenifolia*

Eriogonum stenosus, *Carex laxiculmis*,
Straminea versabilis, inferior *capillaris*,
trivirens. On roadside *Asclep-*
ias Coruini & *Trifolium agrarium*.
 In via favorita a *Carex Penn.* in
 clumps & hardly stoloniferous, very
 pale but with narrow or involute lvs.
 In wet meadow that Washburn is
 reclaiming close to the Greenlodge road
 a *Carex stricta* X and *Straminea*
var. alata quite ripe, and a
 bristly young *Brassica* with pink
 flowers.

22 June

With Skilly in Team Greenlodge & along
 to Davenport corner where we took
 road road thro gate & by rocky woods
 & came out on Deham Road not far
 west of Everett St. In wet meadow
 not far beyond Washburn on So. side
 of Greenlodge Road found a Cross
 between *Carex stricta* & *lucida*.
 the first I saw was in a clump of
stricta & looked queer enough. I
 took a dozen or more specimens
 & left many there. Went to
 Ellis station & to small dried up
 pond near Westwood park that
 I visited June May 15. Got ripe
Isotria, evidently no water for it

this year, also *Gratiola aurea*, *Agrostis*
canina, *Alopecurus geniculatus*,
Ludwigia palustris, *Eleocharis*
uliginosa, then back to Purgatory
 from Little Spring by the roadway to
 Great Spring: *Sassafras* quite
 young and pale in the deep woods
Carex cephalodes, *Senecio*
 + a very large clump of *Ligularia*
varia. From where I got the
 former *varia*: *Juncus acuminatus*,
Andropogon ligustrina, *Skullaria*
graminea, *Scirpus atrocinctus*,
Ilex laevigata. And in
 meadow by Ellis station *Hypericum*
ellipticum.

26 June
Monday

Drove PM with Hawk thro. Reser Road
 Forest St Harland St home. Tried
 to find *Leparis* on Harland St.
 Found *Rhododendron viscosum* +
Quercus coccinea, *Danthonia*
compressa + *Ceanothus* in fine
 bud looking as if in flower.

27 June
Tuesday

Drove with Kelly by East Milton station
 + up road by Ice Road + to West Summit
 quarry to see Mr Simpson. The
 chairman of Selectmen abt. Parkway:
 came home by Willard St + through
 the Reser. Road over Cheekawhatch.

Did not leave the roadside at all but
got the foll. pls. *Linaria vulgaris*,
Antherum Cotula, *Helianthemum majus*,
Hypericum perforatum, *Stemona cordata*,
Nepeta cataractae, *Epilobium angustifolium*
on dry hillside, *Asclepias physaloides*,
Rhododendron viscosum, *Pastinaca*
sativa, *Hieracium Mercurium*, *Typha*
angustifolia, *Carex straminea* ~~Asclepias~~.

30 June
1899.

In overland by the Little Pond got
up four of *Polygala paucifolia*: one
or two pods just opening & seeds within
& some open & seeds on the ground.
Ripe pod of same pale whitish
green as when not ripe, but
seeds dark color & not so thickly
hairy as when young; the tripartite
caruncle white & prominent on the
dark seed. Cleistogamous flowers
also ripe & capsules more
prominent on plant. Pods usually
shake off at slightest touch.

1 July

with Kelly thro Washburn Road
Asclepias oblongifolia not yet in bloom.
then by opp road off Devham Road
the "Long Path" to Purgatory meadow.
Lilium Canadense here 6 feet high
& 10 flowered, but leaves with rough
edge & midrib. *Scorpus atrocineus*

only one spec on the meadow:
Eriochloa tenuis more than ripe.
Carex tribuloides, *crispata*,
Polygala sanguinea, *Centa mae-*
ulata, *Agrostis carina* making
large red brown patches in the
meadow *Carex bellota racemosa*
& *interior capillacea*, *Polygonum*
hydropiper and what *surphurum*
Desmodium ilicifolia a tree 15 feet
up by the long path in the wettest
place near the *Calla palustris* ditch.
near it a *Tupelo*. *Rubus Canadensis*
+ at end of long path on Decham Road
a dry gravel *Spergularia rubra*.

July 2
Sunday

Drove with NWK by Sprague place
thru Green Lodge road: on side of
the dry gravel road on hill before
you reach farms on Green Lodge
Road back of Unalaska land
found *Syntherisma producta*, Fernald.

July 3

To North Scituate with NWK to see Edith.
Carex paucicarpa in dry field near
Cliff House. *Juncus tenuis*, *Artemisia*
filifolia, *Convolvulus sepium*,
Glyceria Canadensis, *Koeleria lanata*,
Syntherisma stricta, *Calamagrostis*
Canadensis, *Arenaria latifolia*,
Potentilla anserina, *Scirpus*

Maritimus, *Spartina cynosuroides* &
juncea, *Hordeolae borealis*, *Carex*
straminea var. *foenea*, *Elyochloa*
palustris, *Carex alata*, *Junceus*
Greenii & *Gerardi*, *Panicum distans*
& *maritima*, *Agropyrum repens*, in
Salt Marsh & seedling *Salicornia*,
Scirpus americanus & *Spartina americana*.
Drove to Westwood & Deodham road
via Green Lodge for my *Asclepias*
obtusifolia wh. was in fine flower,
& in the dry woods along Washburn
Road and on Via Favonta *Carex*
albobuteus (near meadow) with
Rhodonanthus viscosum very fine;
Chimaphila umbellata, *Monotropa*
uniflora, *Comandra umbellata* fruit,
Galium circaeazans, very pilose,
Pipula rotundifolia, *Dactylorhiza*
spicata a hairy form, *Asclepias*
undecaulis in the dry woods and on
Green Lodge Road *Samolus album* &
Carex cristatella Florida.

J. M. Holzinger sent me 68 envelopes
N. W. Montana mosses, price 3.00.
very good specimens.

E. Williams came out before
dinner we walked up the Blue Hill
path looking for fruit of *Amelanchier*

July 5

montana
mosses
July
Sunday

spicata which we did not find.
Got *Linum Virginicum*, *Carex foenea*,
Humulus cuneata & Pennsylv. fruit,
the latter a shrub 2 ft high.
Hypericum Canadense & *Muselinum*.
Juncus tenuis. 2 ft high.

10 July

Went up Blue Hill 10-12 am & got
fruiting spec. of *Amelanchier spicata*
also in the Baggy flat place
North of the road on top. *Carex*
straminea var. *brevior*, & the *Clethra*
was just beginning to flower.

Thalictrum purpurascens in fruit.
Juncus dichotomus, a curious
Panicum in same dry bog place.
Hieracium marianum & *Carex eupatorioides*.

12 July

Drove with Kelly to Raccoon Bog on
Pierces land off road near Tuckers.
Habenaria laccia, large berries
Amelanchier botryopum bushes
to 8 ft high. *Salix discolor* which
I at first thought might be *caudata*.
Spiraea salicifolia, *Scirpus*
atrovirens, *Aster cadula* &
very fine large & tough. *Carex*
atlantica, *Eriophorum virginicum*
+ same with white head, a
small *Eupatorium*, in bud when
one ft high edges of all the leaves

bordered with a red line & leaves
all opposite, a small *Microfolium*.
Sericocarpus corymbosus - *Carex*
alata: on roadside by Koozie
Club. *Campanula capunculoides*
+ *Asclepias tuberosa* with
spals not reflexed, a sport. -
Helianthus divaricatus + *Baptisia*
fruticosa:

14 July

Drove with Kelly round Killeade St
+ by east end at edge of Reservation
to outlet of Koozie pond: + followed
the Brook out of Reservation 100ft
or so into a little Boggy meadow.
Mimulus ringens, *Asclepias incarnata*
var *pulegioides*, *Peltandra virginica*
Cyperus dentatus, *Spartanum*
androsaceum, *Rhynchospora glauca*
Pycnanthemum muticum, *Polestera*
cordata, *Rhexia virginica* + on Killeade
St *Guardia flava*, *Engelm.*, *perfoliatus*
penstemon *biennis*.

18 July

Took with R. S. with Mr. H. to see C. F. T. on
Blackstone Boulevard near the
Butler Hospital found *Carex*
vaughaniana var *canadensis*, *Carex*
xanthocarpa very small, *Euphorbia*
maculata, *Scleranthus annuus*
+ in a dump spot *Hypericum maculatum*.

1899

July 19

to West Roxbury

Mr K & I drove to Mrs Baker's lunch.
In Gow's Woods on West St a small
form *Carex crinita* & in the
Reservation carriage drive on
our way home *Asphella distrix*.

July 20

With Judge Churchill & Mr Rich
by the 12:31 train to Walpole at 1.00.
Tracked down the track say $\frac{3}{4}$ of a mile
to second street crossing on a bridge.
Went down the side of RR to road &
easterly to next highway & at once
met lane or way that took us to
the slate mill, where a man was
at work polishing slate with saw
water for curriers use. A fine
spring by which frequent path
S. W. of the slate mill. The swamp
begins right here & is very soft near
the spring. We went along the wood-
road by edge of swamp & passed
one trail or path into the swamp,
but took the second, which is not
easily noticed though plain
enough when you once are on it.
I broke off the tops of two young
oaks on right hand side of trail
where we entered it & a small
white pine is directly opposite.
The trail led in abt 500 feet

Walpole

*unpalatable probably explain
up.*

to a dense grove of *Rhododendrons*,
quite like a Florida mangrove forest.
The trail is much worn & easily
followed & broken limbs and
flowers of the *Rhododendron* were
quite in evidence on the path.
We found some few *Osmorhiza*
but they were mostly gone.
We went quite across the swamp
by this trail & then back again.
Found *Microstylis oblongoides*,
just beyond the *Rhododendron*
trail. Came back &

ORDER NEW BOOK

From Number inside front Cover.

HOOPER, LEWIS & CO.,

6 Milk Street, BOSTON.

the edge of swamp on way
to a shingle mill at

*Hypericum splendens & ac
from this*

end of wood road near this got
Smilacina trifolia. Followed
this wood road to the State Highway
which runs thro the middle of
the swamp & then back to depot
by road at 6.06 & Keosauqua at
6.34 - *Aralia nudicaulis*, *Aster*
liverifolius, *Hesperis matronalis* on
the roadside coming back to station
also *Malva moschata*: and in
swamp *Lysimachia procumbens* &
branched *Drosera rotundifolia*. On
dry land by swamp *Lycopodium obscurum*
Barbarea flexilis, *Labellia spicata*

Hyssopus splendens & *aculeosum* ~~salutis~~ *propoly* *explan*
from this swamp.

to a dense grove of *Rhododendrons*,
quite like a Florida mangrove forest.
The trail is much worn & easily
followed & broken limbs and
flowers of the *Rhododendron* were
quite in evidence on the path.
We found some few *Proserpin*
but they were mostly gone.
We went quite across the swamp
by this trail & then back again.
Found *Microstylis oblongoides*,
just beyond the *Rhododendrons*
on the trail. Came back -
followed the edge of swamp on dry
hillside to a shingle mill at
end of road near this got
Eurhynchium trifolium. Followed
this road to the State Highway
which runs thro the middle of
the swamp & then back to depot
by road at 6.06 & Radville at
6.34 - *Aralia hispida*, *Aster*
linearifolius, *Hesperis matronalis* on
the roadside coming back to station
also *Malva moschata*: and in
swamp *Synanthes prostrata* &
franchetii *Drosera rotundifolia*. On
dry land by swamp *Saxifraga obtusum*
Barbarea hucella *Lobelia spicata*

Theranthus gracilis, *Carex Muhlbergii*
Carex albobesensis; and in the
swamp *Illy laevigata*, *Vacc. corym-*
bosum var. *atroceum* this at end of
the path thro' the *Rhododendrons*,
Lonicera caerulea near the beginning
of same path, also *Brachyelytrum*
aristatum & *Taraxacum Canadensis* fruit,
and in the swamp *Scutellaria*
lateriflora & *Aspidum Novaeboracum*,
Thelypteris & *Simulacrum* all together
on dry field *Carex brevior*.

21 July

Drove to Randolph Township near
corner of Rutledge Road & got
leaves, only of *Asclepias purpurascens*
that Churchill took on yesterday.

22 July.

KWK & I went to see Edith at North
Seixuate, fr. East Milton at 8.42 &
returning home at 5. Walked before
dinner northwards fr. the house &
beyond the cottages N. of the house
following the shore line of the tidal
bay. Got *Scirpus maritimus* the
large form, with bristles much
shorter than at home: small form
also there. *Raphanus Raphanistrum*
at edge of salt meadow. *Fucus*
Canadensis, *Panicum virgatum*
was the grass I did not know July 3?

Seixuate

Statice limonium var *Caroliniana*, *Scaevola*
maritima, *Portulaca maritima*, *Lithum*
Phledaphicus, *Parthenocladus*
 very small & dark green, *Lettys*
maritima, *Cakile americana*, *Bidens*
maritima, *Anagallis arvensis*, *Atriplex*
arcanum & *patulum* var *hastata*.
 A very large long armed four sided
Agropyrum glaucum, *Solidago*
serotina, *Desmodium Canadense*,
Convolvulus sepium & *repens*, the
 last a novelty to me & not in
 the Mass. lists. *Cephalanthus*
occidentalis, *Elaeagnus obtusa*
 & a slenderer one perhaps *jejunus*.
Cyperus strigosus & *Hypericum humilissimum*
Plantago major at edge salt water
 very hairy on peduncle, & with stout
 refuse rootstock

July 29
 Purgatory

Drove with Kelly the Fox Sparrow path
 to Green Edge Road, to Washburns Grove
 Road to Deham Road to Purgatory.

Habenaria psychodes, *Asplenium*
lucida, *Desmodium polystachya*,
Polygonum crispum, *Desmodium illinoense*,
Habenaria frondosa, *Barbarea tenuifolia*,
Circaea latifolia, *Carex physodes*
 & a sub. *Carex gracillima* or cross of
 some kind, *Lycopodium obscurum*,

Linum album, ripe fruit of *Achaea*
rubra, *Pyrola secunda*, *Taxus* in
 ripe fruit, *Carex cephalophora*,
Hypericum maculatum, *Lechea*
intermedia, *Clethra alnifolia*,
Sorbus eriophorum var. *cyrenicus*,
Lycopus Virginicus, *Agrostis perennans*,
Monotropa hypopitys, *Chimaphila*
maculata & *Corallorhiza multiflora*.
 The *Lycop. obscurum* has its leaves in
 3's and every alternate set of 3 has
 one very small leaf always on
 dorsal side.

31 July
 Monday

Ther 60° at 7 am. Took William &
 walked up Blue Hill down So side
 thro' Meadcat notch to Reser. Road &
 so home. *Sarcocarpus Solidagineus*,
Keraenum paniculatum, *Carex*
costellata, *Quercus prinoides*,
Linum Virginicum, *Pyrenanthemum*
incanum *clinifolium*, *Bromus ciliatus*,
Desmodium nudiflorum, *Eupatorium*
purpureum in dry soil. *Rubus idaeus*,
Aster macrophyllus or some form
 of it, *Panicum agrostoides*, plenty
 in dried up pond hole in Meadcat
 notch, *Viola cucullata* with
chrysogonum & *Hydrophyllum americanum*
 by damp brook before going to notch

1899

Aug 2. Hal & I to North Scituate. near the RR station *Mougea didyma*, *Samolys longistylis*, *Notica gracilis*. On roadside soil. escaped specimens down to four inches high of *Papaver somniferum*. At shore *Dracopis*, *Salsola Kali*, *Polyg. Pennsylvanicum*.

Aug 3 Drove with A.H. Jr up through the Swamp - thru Woodroad to Indian Lane & back by Carlton Water works - Swamp. Fine *Polygonum Carey* at water works. *Carex bulboides* & narrow *Scoparia*. *Gerardia purpurea*, *Clodis Virginia*, *Hieracium autumnalis*, *Polygonum aviculare* in wet meadow on the Swamp. *Selaginella apus* —

5 Aug with Kelly to Purgatory to get the crosses. Cross of July 29. found some specimens not much more grown than a week ago. Also *Carex nutans*, *Antropogon furcatus* with very hairy thallus. *Lespedeza intermedia* *Cyperus filifolius*.

"1899

Biddisford Pool, Maine

July

Monday

Left Boston with Nat. I am on
road with some more some for 5
miles to the Pool, back over the
hill. Near large rocky woods.
Pine I walked on the shore near
the house & in courses of rocks
soon found *Artemisia* *microphylla*
same kind of place as at Cuckoo
rocks but at high tide & both
upstream.

2 July

I am in the morning, back
by back again. P.M. I also
walked all around the shore
up with life many new ones.
Artemisia *microphylla*, *Epilobium* two sorts, *Saxifraga*
hypnoides, *Ranunculus* *sceleratus*
a dark green slight green *Saxifraga*
comosa var. *officinalis*
Aster *novi* *Belgii* var. *littoralis*.
Poa, *Carex* *chamaecyparissus* & a *Scirpus*
on shore close to spring. *Helianthus*
& *Carex* *silvestris* & two forms
of *Coarctatus*. *Aster* *umbellatus*.
Hemerocallis *flavescens*.

9 Aug
Wed.

Don Hunt found both coveys with me at 7:30 pm. Partridge caught came by boat from Old Orchard. Two captured them at 11:00. BOTTIN came today a few days sooner in the office with Hall.

19 Aug
Thursday

[illegible]

11 Aug
Friday.

Easterly rain storm all day.
I walked back on the road toward
Biddford. Perhaps a mile on the
East side. Not much to
report. Saw on road side
a few *Flax, maritima*,
but at home looked over the plants.

12 12/11/11

22.4.20 went home at 8 AM. worked
the beach and again searched for
the *Artemia* bedoids but
did not succeed in finding anything
very good: the water was appa-
rently too shallow.

13 July
Friday

the Lily point - goldfish - some very large.
 Above the rocks on the edge of Lily
 point. *Scorpaen* with a brown
 mottled back? *Scorpaen* also upon
 the rocks. *Scorpaen* also upon
 the rocks.

14 July
 Monday

Went with the children. Mark
 brought me *Baptisia* *Edwardsii*,
 var. *formosa*, with a narrow, glaucous
 stem.

15 Aug

Thurs. Page F. B. L. A. C. went away
 to town.

16 Aug

At 8 AM we drove to Hills Beach to
 take a walk to see a man for a walk. Then
 we drove to Fort Hill at the
 Harbours - home by noon. The played
 tomorrow.

17 Aug

Had went home again. Rose walked
 along beach to yellow house got
 moss (a *Polypodium*) in the wall
 there & on the wall got a *Baptisia*
Edwardsii.

18 Aug

at home again.

19 Aug

He went to see the house at Beach
 house by house. He then found a
 moss perhaps *Hydrocotyle*, in
 yellow fleshy prostrate plants at top
 of hill & some *peruviana*, not much filled.
 also two other *peruviana* & *peruviana*.

Condensation. Saw some about 10 acres
in one patch of *Hydrobia ulmiculosa*, &
got some ripe shells. Evening the mail
brought me home letters forwarded by
Hal, three envelopes of Alaska mosses fr.
Mrs. Mary S. Pierce.

20 Aug
Sunday

Spent all day laying out & sorting the
Alaska mosses. There were 27 diff.
species, *Tetraplodon nemorosus*, & a *Bar-*
tramia in fruit *Mob. pomiformis*, & a
Hypnum fergescens, with *Dicranum* &
Polytrichum, & *Hypnum splendens*. Evening
wrote Mrs. Britton & Dr. Farlow.

21 Aug
Monday

Fog today after much pleasant weather.
Near Spring at Guelphs point *Atrebin*
angustatum and near of *Hypnum*
Saliciforme?

P.M. called at
the Bowmays near Life Saving Station

22 Aug
Tuesday

N.E. fog all day. Evening Capt. Ritchie ^{past.}
called & told us of the mosses along shore in past.

23 Aug

N.E. fog & rain. Mr. Smith with the Glen Esk
did not sail on acc. of the weather. Evening
Joe Smith over here. The Queen Prince of the Cape

24 Aug

Rain & fog. Am. Joe Smith & I walked to
point to see the bay.

25 Aug

Clear this morning. Mrs. Burridge
called & we saw them off by the Hockley
Boat. The Glen Esk sailed at noon to
carry magazines to the light house on
the Maine coast. P.M. Golf.

1899

Fortunio's Rocks.

26 Aug
Sat.

Mr. walked almost to Fortunio's Rocks
+ around the Pond there + to other water
+ home by Highway + woods. Very
beautiful clear day. *Gyneros Nuttallii*
+ *diandra*, *Potamogeton obtusifolius*,
Typha *Hyssopifolius*, *Sanicula* +
Equisetum. Several mosses.
~~wonderful view from pond~~

27 Aug
Sunday

Mr. my + mother came in one day
with her bowshot gone in collision
with a fisherman. P.M. walked on
the moors + beaches back of Fern Bank
opp Wood Island, saw several new shore
birds + brought back a moss from under
sloping rock near one of the marshy
spots in pasture.

very wonderful very sunset reflected in
the Bay with Mt Washington a dark blue

28 Aug
Monday

Mr. we called on the Browns. There
are Golf Field + parkland beyond: got more
of yesterday. *Fortunio's Rock* moss, also
Bartramia pomiformis, *Polygonum*
erectum + other forms + *Kanthon*
uncusum very young + a large loose
leaved *Hyssop* *cordifolium* in the black
mud ditch of the bay swamp.

29 Aug
Tuesday

Mr. left with Mr. F. Am. Mr. home to
Bridleford in Rock Island + that Billie
came at four o'clock + we were
home by day.

30 Aug

Fog more or less all day. we played Golf & worked on mosses from pres. Smith for Boothbay & Islands of coast. At noon dined at the Smiths.

31 Aug

Hal went sailing in Am. & with his mother also in P.M. I played Golf in Am with Nellie Read. I did 18 holes in 31.32.53. P.M. Capt Fletcher drove me to Curtis Cove to see the 40 or 50 acres of Red Spruce trees: at Curtis Cove where we saw Mr Curtis & his sister Mrs. Murray. Got a few mosses & *Carex viridula* a late form. Saw by the roadside one *Pennis setacea*. Among the mosses from under a large rock was a curious *Bryum* fructed *Atrichum rubrocinctum*.

Sept.
Friday.

Am at work on yesterday's plants & mosses. Got also spores of *Groenlandia angulosa*. P.M. Golf.

W

The moss was found under large rock in quite prominent loose mass, & I thought it a large *Fissidens* before I gathered it. We did not explore more than the southernly 1/3 of the woods & the place was near the centre from sea to pasture wall & on S. side of one of the damp hollows or natural muckey places in the woods, not in the thick growth of ferns.

Woods of Boothbay

1899

2nd Sept Rained all day. I went down various
mosses & made out my odd one from
the Spruce woods to be *Funaria* or *Orthocladia*
or something near it.

3rd Sept Sunday All packing up my mosses in envelopes
for home. P.M. We all went in Rick-
board to the Curtis house at Little River
Beck & walked in the Spruce woods
there. *Barkovia tenella* in the
pasture near: on our way out
we went up on Hoy's Beck to find
the pond laid down in the map. Did
not find so large a pond, but in a
damp meadow place got a *Proserpinaca*
& in a pond hole in the hill side
where granite was formerly quarried
got a *Myriophyllum* & other water
plants & mosses. Also on the
shore got the very small *Plantago*
major with prostrate flower stalks
laid down underneath the leaves
that grew at Tadousac. Came
home at six before a mild thunder
storm arrived. The above *Myriophyllum*
is *Myriophyllum proserpinacifolium* with a
submerged *Elodea*. & in the pond
at Fortin's Rocks *Ceratophyllum demersum*
or *submersum*.

1899

4 Sept
Monday
5 Sept

Clear cool day. NW wind. worked
on yesterday's mosses & things.
Left Bedford Pool 7.30. Bedford
8.17 & arr. Boston 1.10

Willoughby Mt

12 Sept

NW & I left Boston 9. AM & arr.
West Burke 3.50. George met us
with team. Travers by timber being
all cut off.

13 Sept

Mrs. Carbee autographed book from
Hancock N. H. Hill & I spent the
morning with them getting speci-
mens of trees & shrubs for him to
cut for microscopic slides. They
went home in the afternoon &
as Mr. Muche had brought in
from the Sutton Road two spec. of
what answered for *Spiranthes*
tralecox Mr. Skinner & I went
out looking for it, but without
success.

14 Sept.

Mr. Skinner & I went again on
the Sutton Road but did not
find the *tralecox*, got *Cerina*
& a few mosses. Cold raw day,
so I up the wet path to the
upper cornfields place, found
a few plants but no flower.

1899

Friday
Sept 15

Brought back mosses & Infusorians.
 From L. to make our route Chemical
 Pond to the road we began
 on last Sept 10th. A very fine
 path which Mr. L. has been
 over six times this summer.
 It passes thro two cedar swamps
 in which the Calypso ought to
 be. Got five fronds of *Monarda*
 & *Cypripedium acule*. Also
Rosa villosa, a bush on
 each side of the road in
 a swamp. Passed a smaller
 grassy pond. Fine dead
 place thicket before getting to
 Chemical Pond. A six mile
 walk in a most beautiful
 morning. got back at 12.30.
 PM Took care of my plants.

16 Sept

With Mr. Krum to a rock in gulch
 near to Green Tunnel, we marked it
 little Green Tunnel & were so much
 pleased we went there again after
 dinner & staid till 5.30 PM. Found
 several mosses, *Leptogium*, *Andropogon*
Hookeri.

17 Sept
Sunday

Am with Mark to Cold Brook. Found
Diplazium on the bank by path.
 Also at house.

18 Sept
Thurs.

Went along the Riverside Road to Elmont Lake Park: got spec. of the same that fell last fall. Also got fruit *Microstylis* *aphidoglossa* & *Myrica* *repens*. Also got all sorts of the leaves to show the insects that feed on them. Went a short distance up the River to see what was in the *Myrica* *repens* & *Myrica* *repens*.

19 Sept

Went to Elmont Lake Park. The weather is of the same as the day before. Still beyond, wire fence in Swamp & "Elmont" Bay & Little Pond & Great Pond. Got up fruit *Microstylis* *aphidoglossa* & very smooth & green warty *Vaccinium* *canadense*, *Lycopodium* *undatum*, & *Ophioglossum*. Also a very dark & rigid *Hyp.* *splendens*. Every evening we had much needed rain.

20 Sept.

At home in A.M. P.M. called on Mr. Cheney & walked through his land to Elmont Lake & back by shore of lake (the water being very low) & in woods by River to & home by road & orchards, noting the differences in *Lycopodium* *complanatum*.

21 Sept

Rain all day: at home packing.

22 "

Left Will. 6.45. & arr Fabians 11.50. Walked to the Fabian Grange with Mr. Skinner. Left 1.45 & thro the Hotel to West Ossipee at 4.15 & a four mile drive to Chocoma.

1899.

Chocoma.

Sept 23
Saturday.

A beautiful rosy tint on Mt Chocoma at sunrise, and a very fine day followed. Had I walked to the farmer's cottage back. *Harpygia* in full flower. *Aster labialis* & *Silene verticillata*, and fine grass of *Pennisetum*. *Crataegus coccinea* & *Quercus laevis* & *rubra*. Mr. Norton Skinner & I with Mr. Robertson as driver went abt 20 miles across bridge at lake past Dr. Engelmann's house to Left River valley seeing Mr. Skinner's house on distant sky line & the Fairworth Village & by Prof Fay's house. Near by is Lima with Mr. R. said Prof Fay called a rare plant abt here.

24 Sept
Sunday

Mr. Skinner called us before sunrise to see the rosy glow on Chocoma which was wonderful & a red bow in the west of an arc of abt 160° not presenatic. But bright rosy red. I never saw so beautiful a picture & the vivid dark green of the near grass was peculiar. Our windows faced North & also West & we had a marvellous vision of beauty. The

sun soon clouded over and the hill faded from mountain rocky. The day was cloudy & constantly threatening rain. Mr S & I walked up the road 3 miles thro the James woods. Under a large rock by roadside in woods a new *Utriclea* with very silky leaves. PM at home.

25 Sept cloudy day. Mr S & I at the lake in a boat. Aster *neurocalis* & *Rhodora*, & *Viburnum cassinoides*, & *Ilex laevigata*. The beach lined with seedling Red Maples.

PM. Mr S & I called on Horace Scudder. Rain all day.

26 Sept Fine & clear. Drove to Mr. Salters & to ledge behind his house. *Selaginella rupestris*. PM walked up road towards Dr Chadwick's.

Buxbaumia aphylla & *Dryopteris* by roadside. An *Isotria medeolae* washed up on lake shore. Beautiful view fr the Scudder Boat Landing.

28 Sept. Left West Ossipee 11.13 AM in Boston 3.20.

1897. 10. 11. With N. K. & D. H. & W. H. & W. H. Boston 12.30
arr. West Ossipee 5.10. Hotel 6.15

1897. 10. 12. Spent morning on lake going in two
boats to the end & walking to James
Wells brook. P.M. we drove to the
Falter place. Found a curious Blue
Spruce by the roadside beyond the
house where we regimed the way. Prob-
ably not a *Picea alba* but with very
short glaucous leaves & small cone.
Took also some cones & leaves from
Red Spruce on Salton ledge.

1897. 10. 13 This has been another lovely beautiful
day like yesterday. We left at 8 o'clock
& drove to Auntie's farm on the Sandwich
& Tannworth line, almost to the white
Quaker meeting house. Coming back
on Stevenson Hill a *Lassafra* tree
abt 25 ft high, which I found was
set out 35 years ago & from some
introduced trees growing on the Marsh
place, wh. I believe is in Sandwich.
We reached home at one. P.M.
we went down to the brook opp. the
house & I found several mosses:
Fontinalis in fruit in brook: *Fissidum*
by root of an ash & a *protodroma* with
same small archidium looking moss on it.
also *hypnum denudatum*

163

Mt. Mansfield



NOSE, SUMMIT AND CHIN, MT. MANSFIELD.

4457 feet above the level of the sea.

Stowe, Vermont.

DATE RECEIVED

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1897 10 (19)
Sunday

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1991 10 16 Left 11. Parker 7.58. Boston at 12.42 + home

Mount Mansfield, Stowe, Vt.

NO more delightful resort in the New England States, nor one of more interesting and attractive features can be found than this, the highest peak of the Green Mountain Range, towering as it does 4,457 feet above the level of the sea.

There are three routes by which you can reach the summit of Mt. Mansfield. One via Stowe on the east side, one via Underhill on the west side of the mountain and one via Jeffersonville.

Round trip tickets at greatly reduced rates for sale at nearly all principal points for Stowe, which may be reached either by the Central Vermont or St. Johnsbury & Lake Champlain railroads. If by the former, you will leave it at Waterbury and take the electric cars for Stowe, passing through some of the finest and grandest scenery in New England. If you go by the St. Johnsbury & Lake Champlain railroad, you will leave it at Morrisville, Vt., station, eight miles from Stowe, or at Jeffersonville, thirteen miles, by a new and easy road through Smuggler's Notch from the foot of the mountain on the east side. The St. J. and L. C. road passes to and from Portland, White Mountains, Morrisville, St. Johnsbury, Burlington and Ogdensburg. Stages from Stowe connect with trains at Morrisville morning and afternoon. Tourists having choice of routes, will have a better variety of views to and from this charming region by taking one route to reach Stowe and another on their return.

Parties wishing to visit Stowe or the mountain from Morrisville by private conveyance should communicate or apply to the large livery establishment of H. H. Hardy, Morrisville, or should they wish to remain over at Morrisville, they will find the Hotel Randall a perfect hotel in every respect. The Green Mountain Inn at Stowe, M. C. Lovejoy proprietor, is a place where travelers can rest, assured of getting the best of care and attention before making the ascent of the mountain. Visitors will find the Melendy House at Jeffersonville a pleasant hotel, well kept by I. H. Melendy.

From Stowe to the Summit House

is ten miles over a good carriage road and it is directly after leaving the village that the finest view is had of old Mt. Mansfield in all its hoary grandeur. The mountain appears of peculiar shape. By an exercise of the imagination, the outline of its summits can be made to resemble the human face, turned upward to the sky. The north peak resembles the Chin, the middle the Nose, and the southern the Forehead. The Chin, the highest summit is 4,457 feet above the sea level, and is the highest of the whole Green Mountain range. It is 3,909 feet above the village of Stowe and 340 feet above the middle peak, or the Nose, which is 160 feet above the southern peak, the Forehead.

From Underhill to the Summit of Mt. Mansfield

is seven miles, and is by far the least expensive as well as the quickest way of reaching the Summit. Leaving the main line of the Central Vermont at Essex Junction, a short ride on the Burlington and Lamoille railroad of twelve miles brings the tourist to Underhill, where Mr. Lincoln, proprietor

of the Custer House at Underhill, has livery in waiting at the station to convey passengers in any numbers to the Half-Way House, a distance of five and one-half miles. From the Half-Way House to the Summit is one and one-half miles over a good mountain trail or path.

The Summit House.

The main part of the house, which contains the reception room and office, as well as the sleeping rooms, is 30 by 50 feet, with an ell 24 by 40 feet, which contains the dining room, while the kitchen is still further in the rear. The house is neatly and thoroughly finished and furnished, and is quite as comfortable, if not more so, than many larger hotels nearer sea level. This popular house is very finely situated near the summit of the mountain and commands a fine view of the valley of the Lamoille, towards the north the wooded side of Mt. Mansfield being visible to its very base, with no intervening summit to obstruct the vision, the scene being closed in on the east by the White Mountain range. Directly over the Summit House towers the Nose. Its ascent is made by a rough path on the western side, much resembling a flight of stairs. The northern side presents a steep and precipitous descent, down which you may look from the summit at least 500 feet. It is but a short walk from the hotel to the Nose. To ascend the Chin requires more time, though the journey is less fatiguing. It is distant a mile and a half from the Summit House. As it is some 300 feet higher than the Nose it consequently commands a more extended view. The scene that is spread out before the eye on either of the summits is gorgeous and beautiful in the extreme. The view for a hundred miles in any direction is nearly unobstructed. From the Chin you may also look down into Smuggler's Notch and even descend into it, if you have the time and necessary pluck. At the base of the Chin on the north side is a charming little pond called "Lake of the Clouds." Also to the right of the path leading to the Chin is Ice Cave, Rock of Terror, etc. To make this excursion to the Chin, without being hurried, a night should be spent on the mountain.

Persons recovering from a long sickness, or who are in poor health, will soon be restored by a short sojourn at the Summit House. Nearly the entire top of the mountain is covered by the fir balsam, which impregnates the atmosphere with its resinous odors.

Wear loose-fitting garments and thick boots; if to remain over night, a thick shawl, overcoat, rubbers, water-proof. In fact, dress for comfort and not for show.

The rates for board at the Summit House have been reduced from \$4.00 to \$2.00 a day. Meals, 50 cents. Lodging, 50 cents. A limited number of weekly boarders taken at \$12.00 a week.

Toll on Mountain Road from East or Stowe Side.

Saddle horses, 25 cts.; single teams, 50 cts.; two horse teams, \$1.00; four horse teams, \$1.50; six horse teams \$2.00; stage fare (round trip), \$1.50. STABLE RATES.—Use of barn and feed, 50 cts.; use of barn, 25 cts. per horse. For any other information required, please address

W. M. ADAMS, Stowe, Vt.

1897/10/14
Sat.

Another very warm day. Drove to Dr. Engelmann's place - back through the Pikes Peak National game - lay out with a road, house, fences, looked across pond on the lake place, mountain in background + a view from road down to the Brook.

P.M. we went also Boulder Canyon path to Chadwick Road. Found the hybrid *Salix* *arctica* *beccata*. Then to lake + rowed around till 5 o'clock. Then at noon 75° - at 9 P.M. 65°. A.O.K. I walked to the shore house bridge by lake road corner in the moonlight, between 7.30 + 9.30 P.M.

1897/10/15
Sunday

Another warm but clearer day. Then 75° at 5 P.M. Drove down to Monks' Falls: worth seeing; some good moss territory rhubarbs. + beautiful road down to falls carpeted with *Populus tremula* *argentea* with fallen leaves. Arrived at 12.30 P.M. Followed water pipe house to Dr. Ashure, E. d. house. On Boulder found a brown belt of *Protonema* with bird like moss plants grown from them. From 4-5 we all went to Brook off house. Every half mile on Dr. Chadwick.

1897/10/16

Left 11.15 A.M. 75°. Back at 12.40 + home on 1.15

1900/1/8

M. L. Fernald here & ex. the foll genera
floribundous plants, Agnoscorta,
Rubus, Carex, Aster, and all
my Riddelford Pool plants, and
also all my carriers for stations
for the new index.

1900/3/10

Warm bright day Ther 45°. walked in Kennan
way land by meadows & on the dry
hills: *Goodyena pubescens* & *Chimaphila*
umbellata in old pads: *Pyrola*
rotundifolia with very large evergreen
leaf.

1900/3/11

Sunday

Ther 20° this morning. With S.K. & M.K. had
you drive us to Chicatawbut Reser. Road on
Randolph Turnpike & we walked to the
summit & down S.W. side to Park's place
& out by path, & to Randolph Ave to
Hoosier Pond by the footpath near Brook
most of the way, & thence home. Got
Lycopodium obscurum etc. Ther 45°

1900/3/26

Monday
Napole.

With Chas Taxon by 8.31 train to Napole,
walked down RR to Slate quarry,
found Mr Robbins wood cutting. He
showed us the various manipulations
of the Slate as he polished it for
carriers use. Found the *Rhododendron*
path very easily for two paths as
corduroy sled roads had been laid
to get out cedar logs. I got

Have very good flowering buds: then
 we walked along various wood roads
 avoiding the thickets & came out by
 Fisher's cranberry bog where a man
 evidently a Scandinavian was cutting
 wood, when we were near the State
 Highway we skirted along between it
 & swamp & came out by entrance to
 the Shingle mill & fall. That wood
 road into the mill. On the State
 Highway we walked thro the
 swamps & to top rising hill
 beyond. Then back to Eschpola
 & took Electric to Harvard Sedham
 Hyde Park. Saw Tree Sparrow,
 Peewee Song Sparrow, Fox Sparrow,
 Cedar bird, Crows, Chickadees,
 Juncos,
 Got *Kalmia latifolia* for winter bud.
Barbula caespitosa,
Anemone — ? *attenuata*
Hyssopus infonsus, very much like
cylindroformis, but growing in shadier
 places & known by its red stem.
Dicranum undulatum and a curious
Weissia moss from the stone quarry.
 leaves porose & upper ~~low~~ cells long
 rectangular much like the lower cells.

1900/4/8

Friday.

With H. K. Maynard Ladd to Crossman's Pines: *Dicranella heteromalla*
Hypnum trisetrum in fruit, a patch
on dry hillside E of Pines: then we
went across back to Crossman's house
& down his road to quarry, just beyond
followed westerly the little brook &
rocky cliffs with pine forest & *Psidium*
Dicranum *subulatum* & *Hepaticas*: came
out opp. Atherdon St then into the
Humb place where on the rocky knave
or ridge found fl. *Hepatica* *inloba*,
as of old. brought three spec home.
on a submerged rock in Crossman's Brook
before you get down to the Pines a *Hypnum*
wh. I think is *H. palustre* Boger

1900/4/15

Easter
Sunday

19
Fine warm day. Emil Millianes came
out on \$15 with Hal & Maynard Ladd
we walked thro the Reservation roads
to Ponkapag & Duck Ponds thence by
the Camp Horne Anglin place. Close to
Duck pond found *Kalmia latifolia*.
met a Mr Dodge of Dorchester an
Appalachian Club man who walked
with us from Ponkapag to Duck Pond &
back to the old Houghton house site.

Halifax.

1900/4/25

left Boston 8.43 for Halifax with Mr. I. arr. abt 10, walked to the Holmes house. Hattie had gone to No. Abington: had our lunch was courtesy & walked back to station. arr Boston 5.17. on path near big Pond found some good but not plenty *Epigaea repens*. also *Potentilla pumila* in flower. *Canadensis* & *anemone* in leaf. *Cory umbellata* in fruit & *Phlox subulata* by roadside in flower & *Cassandra calyculata*, *Antennaria*; & *Hydnum perforatum* with very ragged basal throats. at hole at base of a pigst. *Trachypogon vermicornis* in fine fruit.

1900/4/29
Sunday.

Drove with H.W.K. to the Bloodroot pasture in Canton; found the flowers in perfect condition & brought home a dozen for our dinner table. also the *Potentilla pumila* very plenty. A woodchuck at his hole received me complacently until I was within 30 feet of him, when he slowly went into his abode & stopped ^{at the door} again to look at me, remaining quiet till I was about 20 feet away when he retreated & did not come up again while we were in the neighborhood.

West
Lebanon NH

1900/5/8 Left Boston with truck at 11.30 & arr White
River Junction at 4. Mr Gibbs drove us up to
F. E. Alden's.

1900/5/9 Walked in am in Cemetery & to Creek
Round round by River Road to pasture
& home by Cow gate. Many flowers out.
The *Asarum* on Clay bank of Creek road
has reflexed sepals & is very hairy, the
one on Creek road is in dryer woods,
sepals not reflexed & whole plant less
hairy. *Claytonia Caroliniana* in glen
on River Road, never collected it in Lebanon
before. *Luzula versalis* in full flower
very plenty everywhere & on River
Road a form with scarcely exerted
umbel & wider bracts. *Ranunculus*
atragynensis plenty on bank at River Road
& *Rosa Muhlbergii* abundant. *Spiraea*
palustris by RR bridge on rocky shore,
Trillium erectum in flower and *Hepatica*
everywhere: a few late blossoms of
Ethiops, and a small bush *Carpinus*.
Camp. pedunculata, *Sanguinaria*, *Epithymum*,
Oakesia sessilifolia, *Malvastrum*, *Ribes*
frustratum,

Mr drove with truck on the Pine Plain Road
and just this side of Deer Brook is a *Ribes*
resinosa, the first I ever saw in
Lebanon.

169

1900/5/10
Friday

Mar 2nd at early morning. At 7th all day had
a light frost. At 10th a heavy frost and snow
fell. At 11th a heavy frost and snow fell.
At 12th a heavy frost and snow fell.

only walked below 12 & 1 up in the Cemetery
& down to the spring & down by the Cemetery
road. PM went into cow pasture &
into the Kaddock land beyond: got
two or three violets & some fine *Epigaea*,
& a striking *Hepatica* of the *marckhamia*
sort. The deep glens & woods on the
Kaddock place were full of birds,
-An-livious Thrush & Red-bird,
& the Black-throated Blue Warbler
has been eating hanging meat by
the sitting Room window at all
hours to-day. The Red-bellied *Myiarchus*
very plenty in pasture.

1905/5/11

Came home on the noon train.

1900

Eclipse of the Sun.

May 22. With Melvina K. & Mrs. Texan fr. Boston
1 PM: arr New York C. M. K. with Mrs.
Mrs. Frothingham to dinner & I with C. E. F. to
Harvard Club & dined with Celley 69.
met Mullie at ferry & we took 7:25 train.

May 23
Wednesday arr Richmond Va at 8.40 & slight
breakfast in station & by fast train
at 9 to Norfolk arr 11.25. Day warm
& still. PM Mrs. Texan & I tried the
Electric cars & finally by chance
reached the Golf Club grounds where
Mullie had gone with Mrs. Miss Rice
fr. of Florence Barrow. Saw Mocking
birds, Orchard Oriole & Carolina Wren.
got a *Leskea* & *Orchotrachelum* off the
trees by Club House. Home to dinner at
6.30 & Mullie came at 10. Thermometer
said to have been 90° today -

May 24 Rain & high wind. We took 10.30
express to Virginia Beach & arrived in
a gale. The surf & storm are
heavy enough. We are close on the
shore at the Princess Anne Hotel, &
the storm continued all day.

May 25 Raining but little in Am. & C. E. F.
the rain began again & lasted
all day long.

May 26
Friday
Saturday

Home not wholly over, but the time I
took quite a walk I with my Rubber
band on the back.

May 27
Sunday

SEPTEMBER 1900						
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OCTOBER						
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NOVEMBER 1900						
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OCTOBER

29

SUNDAY

REED & CARNRICK
JERSEY CITY, N. J.

PEPTENZYME
PROTONUCLEIN
PANCROBILIN
TROPIONINE
NEPHRITIN

May 28
Monday

OCTOBER

30

MONDAY

A PROMPT AND EFFICIENT DIURETIC

OCTOBER

31

TUESDAY

IN "SUPPRESSION OF URINE";

NOVEMBER

1

WEDNESDAY

N.E.P.H.R.I.T.-I.N. TRIED AND TRUE.

Had took Boston about 10:15
Met Miller C.E. & D. at the
Montfield Hotel.

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May 26
Friday
Saturday

Storm not wholly over, but Mr. Foxon & I
took quite a walk with my Rubber
band on the ground.

May 28. 1900

May 2
Sunday

We flower
birds.

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May 2
Monday

Had with Boston Quat at air &
Mast Miller C.E. & F.D. to the
Mantfield Hotel.

May 26
Friday
Saturday

Storm not wholly over, but Mr. Foxon & I took quite a walk I with my Rubber poncho on. *Carex vulpinoidea* & *xanthoxysa*, *Silx spica* in full flower. *Kudzu* *tormentosa*, & many birds.

May 27
Sunday

Sun shone very brilliant this morning. We had a walk to R.R. road home. Reddish long eared owl & chats & other birds, a few crows. Then Hal C.E. & I down the Beach for two miles. Geo Brackett here.

May 28
Monday

Day very brilliant & cloudless. at 7 am we walked south of the house two miles down the beach & on a bluff say 50 ft elevation saw the Eclipse. Mercury Venus shining & the Corona silver. a Brown Thrush sat on a bush 40 ft away as if watching to see what the dark ones meant. We saw the crescent shadows under an *Silx spica* tree thrown on the white sand very plainly. Left the Beach & R.R. Mother & Hal took Boston Boat at six & Matt Miller C.E. & I to the Montfield Hotel.

1900

May 29
Tuesday

By James River Boat to Richmond.
uninteresting sail as the wide
stretches of water give no land view.
Left at 7 am arr at 8.05 PM
more than 2 hours late.

May 30

Millie & M. I. to New York 4.45 & Oct
at 10.30 to the Natural Bridge:
arr. station at 5.20 & walked
down to the Bridge before supper.

May 31

Spent the morning at Bridge
& Glen Path: Rough winged
swallows nesting in holes
under the Bridge. Got abt
a dozen crosses & among
them a Tinnia (?) which
I never gathered before.
Left Natural Bridge 3.14 by
Shenandoah valley route &
without change of sleeper
arr New York 7 am

June 1

Left N.Y. 9 am by Longland
route home at 4

Amesbury, Mass

June 7
Thursday

with R. H. True by 9 AM train to Newburyport & Amesbury, & by trolley car to J. W. Hensley's out house arr. abt 11.30. after dinner walked with him in swamp & woods: collected *Atrichum crispum*, sterile: *Plagiobesm*, *Elatocnola* in good fruit, *Deschampsia capillaceum*, & *Dicranum viride* the latter with some fruit; *Hypnum cupressiforme*, *populeum*, *Riccia*, *Hypnum splendens*, *Dicranum longifolium*, *Hypnum stellatum*, *Antitrichum heterostichum*, *Hypnum phytanthi*, var *serratum* looks like *macrum*, *H. exannulatum*, and *Cratichneumon* *perparum* var *cautopus*; home out 5.20.

Sunday

with E. F. Williams, Collins & Providence & Bissell & Rich to top of Blue Hill, & down other side: E. F. W. & Collins found each one plant of *Sphagnum laetevirens*; we searched in vain for *Carex rostrata* *Anglica*: the ground seemed very dry & barren of all sorts of grasses. Collins showed me the young plants of *Lophocolea obscurum*. I came home to dinner & left them at home *Anglica* place. Yesterday pm the Botanical Club visited Largent's place & Collins, Bissell & Rich spent some night with some Williams.

1900

ord. Pool - Maine

Jan 19 Left Boston 9 am arr 13 at 11.40 -
rove to Pool.

Jan 20 Wednesday. Walked on West side of
the road in marsh & meadow by
Pool to Bridge & towards Fortune
rocks almost to first house.
Senecio *pedicellatus* *glauca* in flower.
Potentilla canadensis,
also *Hieracium* & *Carex* *silicea*
maritima. *Juniperus communis*
Gerardi - *Balthicus* var. *littoralis*.
various forms of *Fragaria* &
Achillea millefolium in full flower
in the sand & with many running
rootstocks & new plants arising
mossy, altogether diff. fr. home plants.
Very hot day with strong West
wind max. then 86° & above 88°
fr 8 am to 5 PM. The only walk I
took was fr 6 to 8 am over to the
Print shop. *Carex riparia* in
the Golf Club marsh, & the *Crataegus*
not far fr little cemetery in flower.
Nothing special on the wide stretch
to the sea.

22 Jan. Friday. Am not so warm as yesterday. Walked
to the Pond by Hotel & back by the
other pond between bathing beach
& boat. *Siparis laevis* in flower.

flower by Lily Pond. *Carex coniosa*, & forms of *echinata*. PM we started for Adams & got almost to Fortunes Rocks when thunder came & we turned about & by fast driving reached home with the first of the rain. Steady N.E. rain all PM & evening.

June 23
Saturday

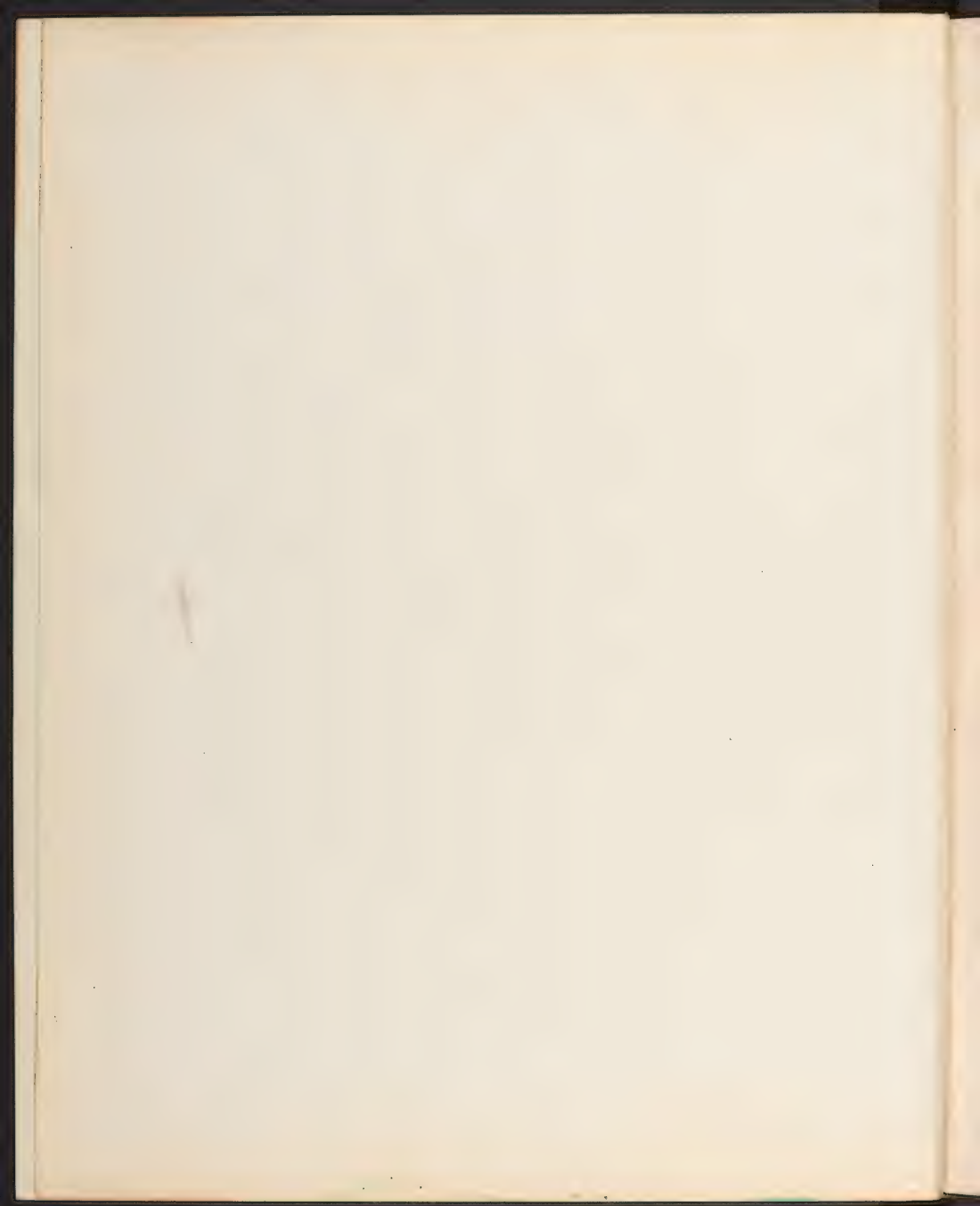
AM we drove to the woods by road back of Fortunes Rocks & were gone for 9-1. Nothing new.

June 24
Sunday

Rhynanthus Cristagalli on roadside beyond Fortunes Rocks. Ther 57° 8 am 78° at 2 PM and 62° at 6 PM

June 25
Monday

on the rocks at Branwin House *Trochetium subciliatum* var. *maxill.* Left B Pond 3 o'clock & am home 5:15 P



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 25





